

South East View of 10R1 S1 GLORGE, MADRAS From an engraving by THOMAS DANILLE, 1793.

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Commercial

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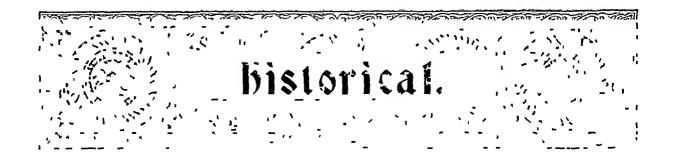
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ERRATUM

LABHCHAND MOTICHAND, Vol. 11, page 345 por trait of Motichand Sett, read Motichand Nakhat



PART III

PERIOD OF EUROPEAN

ASCENDANCY

During the reign of Aurangzeb the European settlements in India had been increasing both in number and ımportance The The European settle Dutch continued and completed ments in India the overthrow of the Portuguese power in India and Ceylon Portugal lost her possessions and her trade Goa, Diu and Damaun But the commercial inheritance of the Portuguese was hotly contested between the Dutch and the English For a short time at the close of the 17th century the Dutch were the greatest European power in Asia, but their most successful efforts lay in the Islands of the Eastern Archipelago From about 1700 Dutch complete over Holland began to decline in throw of Portuguese Europe, with the result that her power in the east declined also England and France were now the rising commercial forces ın India

The foundation of English trade in the Indies and the increase of their settlements have been adverted to under the reigns of Jehangir and Shah Jehan Further progress is to be noted during Aurangzeb's long reign.

The island of Bombay passed to

But Dutch greatness Charles II from Portugal, as the shortlived dowry of his Portuguese wife It was in 1669 transferred to the East India Company who made it their western capital A prosperous town soon sprang up where lately a meagre fishing village had existed Here the English factors governed and administered their own land, erected their own mint, and strengthened their position by When Surat had been the western centre of the Company, English, Dutch, and Portuguese settlements had all existed defencelessly side by side under the eye and control of a Mohammedan The change to a position of independence governor and territorial jurisdiction was

Growth of English scattlements not the result of any ambition for empire, for the directors of the Company still had no thought but for trade But the growing anarchy and the lawless depredation of

the Mahrattas necessitated a change of policy Aurangzeb's mismanagement of his empire therefore was responsible for the beginnings of English territorial rule in India The Company during this time

The Company during this time maintained and added to its factories on the Coromandel Coast, and also obtained a firmer foothold in Bengal In 1686 the English moved from Hugh to Calcutta, so that the seventeenth century witnessed the foundation of the three Presidency towns of the British Empire

The French arrived in India last of the four European powers who have in modern times been associated with the country Colbert established a French company on a firm footing in 1664 A factory was, first established at Surat, then at Masulipatam Ten years later the French obtained a grant of land from the Bijapur State and built Pondicherry, which became the capital

of the Indian possessions of Foundation of France In 1688 the French were Pondicherry, 1673 permitted to establish a factory at (Chandranagor) in Bengal, so that the French like the English were firmly established in what were afterwards known as the three Presidencies But Pondicherry was by far the most important of the French stations was threatened by Sivaji in a Southern raid of his, and was once captured by the Dutch, but before the death of Aurangzeb it had risen to a position of greatness as an emporium of trade in Southern India, and the French were eagerly courted by Indian princes Thus the English and the French were the surviving legatees of earlier European commercial enterprise, and it remained for them to fight out in the eighteenth century their great duel for Indian dominion *

THE BREAK-UP OF THE MOGUL EMPIRE

Aurangzeb's demise was followed by the usual war of succession Three sons of the aged monarch survived, and the empire was divided amongst them by his will Muazzim was the eldest, Azam the second, Kam Baksh the youngest Azam discontented with

^{*} We have perforce to be content with this and the preceding brief summaries of the beginnings of the European adventure in India Detailed information can be found in Sir W. Hunters invaluable but alas! incomplete History of Briffsh India (2 vols.) The narrative ends with the year 1703

his allotted share began the war by marching on Delhi, his elder brother's capital. At the same time Kain Baksh declared himself independent in the Decean Both movements were defeated and the victor mounted the throng under the title of Bahadur Shah. The

Bibidur Shab arew I imperor was already over seventy. He was mild and concentrative invious above all for

Still the Itana was not remitted and the perce Hindus were only half conciliated. The Impreseemed in in advinced state of disintegration Millrittis Raputs Into Sikho all vere in ums against the House of Immur. The chances of the Imperor vere poor, seeing that his nobles were sellish and unrehable while his soldiers were dispirited and degenerate Bahadur however had gained sufficient wisdom from his father's mistakes to abandon the struggle in the Decem and to concilete the Rapputs. He admovledged the authority of Sahu Siv in Sgrandson and the Mihrittis were plunged alto i civil vir of suc cession. But the Sikhs rendered strong and resolute under Moslem oppression by these rivies in the Punjab now demanded instant punishment. They were defeated by Bahadur with great shuighter but before their final overthrowal the old Imperor died The Sayvids a fee years later crushed the Sillis into meffectiveness for several generations

Zulfikar Khan a noted general of Aurungzeb and all-powerful under Bahadur, now secured the Empire for the verkest claimant. Jahandar Shah 1712—13 for the verkest claimant. Jahandar Shah 1712—13 dar thereby himself becoming the virtual ruler. But he was a poor administrator and the puppet Emperor proved to be a fulure Increased demoralisation and corruption brought about a palace revolution, the result of which was that the Sayard brothers. Hosein Ali and Abdulla scated Farukh Siyar, a grandson of Bahadur, upon the throne of Delhi, and put to death both Zulfikar and his tool Still the condition of the Empire did not improve the Sikhs, indeed were suppress-

the provinces of Hindust in Farukh Siyar was a mere figure head, and remuned content to witness the intrigues which proceeded round the throne. It this time there came to the front in

The Synd brothers and old officer of Aurangeeb, Chinn-kilich Khun, leader of the Turkish and anti-Shiah faction better known as the statesman Asaf Jah, and as Nizim-ul-Mulk the founder of a dynasty in the Decean While these leaders struggled for the mastery, the Mahaattas increased their power and the people grouned under tyrining and oppression "Moslems and Hindus" in the words of a contemporary chronicler, "united in prayers for the downfall of the Government." When the feeble

oppression "Moslems and Hindus" in the words of a contemporary chronicler, "united in prayers for the downfall of the Government" When the feeble Emperor sought to escape from gilling tutelage, an unholy alliance was formed between the Sayyids, Asaf Jah and the Mahrattas All opposition being speedily overcome, the Emperor was seized and put to do the This event is an important landmark in the history of the Mahrattas, for it was the first time that they had inter-

fered in the affairs of Delhi

A couple of puppet kings were crowned in turn, but both died within the year Then Mohammed Shah,

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and adventurer who no partitional the directed
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the matter of the second residual of the Carnette school entermines.

Inmistraction St soonal traditions on the fat in ground of the Iran hand I melsh. All earth south to the viet of the Carnatic Lexible State of Mysore which had ben founded in this weite inth century undmiss be recorded with himal decorbant of Vijayana ar It was still in Hindu hands but y is shortly destined to fall into the hands of that Moslem adventurer Haider Alics ho followed by his son Tippoo threaten a the growth of British payer tovards the end of the century. In the north Saulat Khin a Person idventurer transformed his Sibih into the independent langdom of Oudh about 17 :-This state listed for a century and a quarter until it was innexed by Ford Dalhousia in 1856. Before the end of Mahommed Shah streign the Punjab had severed its connection with the I mpire having fallen into the hands of the Michans - The Rapputs also had regioned complete independence in Rapput may while the fats had established themselves firmly in Bhurtpur, and the Robilla Afghans in the country round Barcilly. In the Dist a new dynisty had arisen. A Brahman convert governed Behar Bengal and Orissa but this dynasty was in its turn subverted by a Turkoman Miverdi Ish in whose successors come into conflict with the growing Lighsh Colony at Calcutta

But the severest blows to the Impire were dealt by the Mahrattas and by Nadir Shah, the Person king. The civil war in Mahratta adverted to above ended in the nominal triumph of Sahu, the grandson of Sivaji. But the family of the Mahratta hero had approached the end of its short-lived power. Sahu chose as his Peishwa or Prime Minister, a Brahman of centarkable.

Growing power of Midritis under the Bilaji sixed the State from the ruin which faction threatened receiving in return a hereditary

grant of his office and henceforth the Peishwa was the real Mahratta king. The State was reorganised and the Mahratta power reconstituted on a firmer and more enduring basis.* That the Mahrattas quickly recovered from their disorder is proved by their activity

^{*} The basis of the Mahratta State and the later confederation as also the principles of Mahratta administration may be studied in Grant Duff's History of the Mahratta and Mr. Justice Ranades (uncompleted) Rise of the Mahratta Power

during the next few years, and their intervention, already noticed, at Delhi in 1719 In 1720 Balaji was succeeded as Peishwa by his equally able son Baji Rao I Henceforth we hear little of the titular chiefs of Maharashtra, who lived, in empty state at Satara, while their ministers reigned at Poona But there were coming to the fore a group of new Mahratta leaders, who eventually founded new kingdoms for themselves, each forming part of the larger confederation, and nominally at least obeying the orders of the Peishwa "The chief of these were Ranaji Scindhia, who had at one time served as the Peishwa's shipper-bearer, Malhar Rao Holkar, a Sudra by caste, and Pilaji Gaekwar, a cowherd" These leaders devoted themselves to campaigns of aggression against neighbouring States The Nizam only contrived to hold them at arm's length

New Mahratta leaders carve out kingdoms for themselves by conceding the right of chauth or black-mail, estimated at a quarter of the produce By 1734 the Mahrattas had overrun

Gujerat and Malwa, and two years later they plundered the suburbs of Delhi The Nizam, appealed to by Mohammed Shah, in his extremity, marched to confront the foe, but being completely outnumbered, was forced to capitulate All territories between the Narbada and the Chambal were ceded to the Peishwa Malwa was divided between Sindhia and Holkar, and formed the basis of the existing States of Gwalior and About the same time the Gaekwar had succeeded in firmly establishing himself in Gujerat, and a new Mahratta leader, Raghoji Bhonsla, planted himself in Berar, whence he executed plundering raids into Bengal and Orissa Meanwhile in 1740, Baji Rao died and was succeeded by his son, Balaji But the Mahrattas, while they had become incomparably the greatest power in India, had swollen into a confederation too great for the central control of the Poona minister Henceforth jealousies and intrigues grow more frequent, the strength of the confederation is impaired, the eventual supremacy of the British ensured The defeat at Panipat, shortly to be noticed, still further weakened the Mahrattas It was a blow from which they never recovered, it "swept away the Mahrattas to make a clear path for the English" This, however, is to anticipate events for at the point of time which we have now reached—about 1740—the Mahrattas were at the very zenith of the power

While the Mahrattas were overrunning the empire from the south, a new disaster came upon Delhi from the north. The famous soldier Nadir Shah, a Turkoman, had seated himself by right of conquest on the Persian throne, and rapidly subdued Kandahar, which had been in possession of the Shahs of Persia since 1648, and Kabul and Ghazni, which were still nominally a part of the Mogul Empire. A man of insatiable embition, Nadir Shah descended upon the plains of

Invasion of Nadir Shah, 1738 9

India in 1738 No invasion from beyond the mountains had atflicted India for two centuries, but an attempt which even fifty years before would have met with failure, was now, owing to the moribund condition of the Mogul Empire, crowned with success The mountain tribes placed no obstacle in the way of

the invader and the Mogul forces were factious and treacherous on the plains of Hindustan Shah surrendered in person, and the Persians entered Delhi in 1739 The occupation of Delhi seemed likely to be a peaceful one until the riotous inhabitants treacherously killed some hundreds of Persian soldiers The conqueror then ordered a general massacre the city was given over to fire, carnage and rapine The worst excesses of Timur were repeated, and 120,000 citizens are reported to have perished After two months of pillage Nadir Shah returned to Persia laden with plunder, his spoils included the crown jewels and the famous Peacock throne of Shah Jahan What little authority the Mogul had recently possessed now completely vanished the blows struck by the invader accelerated the shrinkage of the empire, and encouraged on all sides the formation of independent states

After the assassination of Nadir Shah in 1747, the Eastern portion of his Empire fell into the hands of Ahmed Abdali the Afghan Nadir's successful invasion of India invited repetition and in 1748 Ahmed

he got no further than the Punjab when the Mogul army, for once strong and united, fell upon him and scored a complete victory. To prevent renewed Afghan attempts the invaders were bought off with the cession of the Punjab, which they governed with extreme cruelty. Mohammed Shah the Emperor died in 1748, and shortly afterwards the great Nizam of the Deccan brought his career to an end at the age of ninety at least. Ahmed

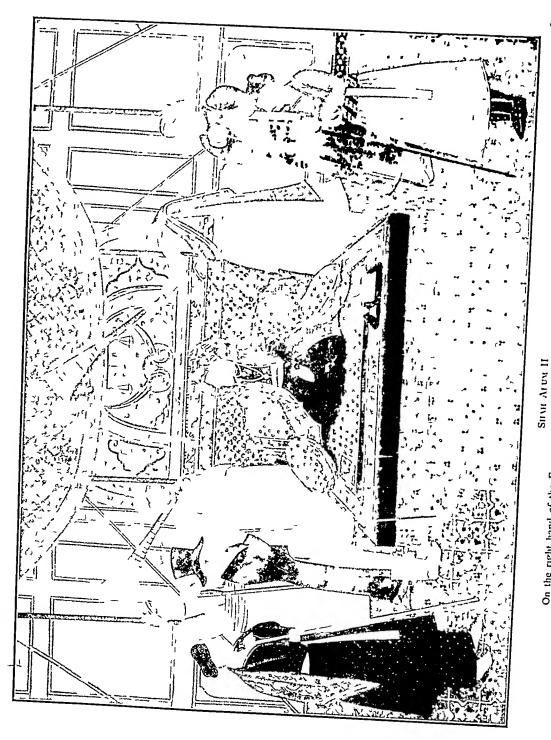
Shah, the new Emperor, was so troubled with unruly Rohillas that he summoned the Mahrattas to his aid, with the result that they were once again in a position to dictate terms at Delhi While the Emperor was sunk in debaucheries, the oppressive misgovern-

was sunk in debaucheries, the oppressive misgovernment of his vizier, Ghazi-ud-din, was reducing the country to a state of anarchy such as it had never known before. In 1754 a new Emperor, Alamgir II, ascended the throne. A treacherous attack on Lahore

Alamgir II 1754 9 by the unscrupulous vizier brought matters to a crisis. Ahmed Abdali marched on Delhi, and pushing aside all resistance, entered the Capital in September 1757, the horrors of sack and slaughter were repeated, but Ahmed retired the following year. Like Nadir Shah and Mahmoud of Ghazin, he aimed at little beyond plunder provided he could keep a firm hold

Ghazi ud din Vizier provided he could keep a him hold of the Punjab The violence of Ghazi-ud-din had meanwhile raised up such a host of enemies, that he treacherously summoned the Mahrattas to his aid He cemented the alliance by reconquering the Punjab and setting up a Mahratta governor in that province Ahmed Abdali promptly re-entered India breathing vengeance. The Punjab was rapidly regained by his forces, and the Afghan army driving the Mahrattas before it, marched on Delhi Urged to desperation, the ruthless Ghazi now resolved to play his last card He murdered the defenceless emperor, and set up a puppet in his stead But the son of Alamgir came forward and proclaimed himself king, while Ahmed Ab-

dalı advanced against Ghaznı The latter wisely fled



On the left hand are Mulani ud Dowlain, Ainni de Africian, Nawaii Sau ed Dowlaii and Savaid Razi Varia.
Near the throne of the Emperor are Ainned Kiinn Kiinn is, on the right, and Sinni Haji Rainder Durge of Khan of the left On the right hand of the Emperor are NAZIM to DOMIMI, Mr SITON, and Min CHUTAN

From a Painting in the Victoria Uemorial Collection

end brought his public career to a close, Abdali again entered Delhi and sought to form a combination of Mohammedans in opposition to the Mahrattas who were openly talking of a new Hindu Empire. It was a case of Islam against Hinduism the struggle over the phantom Empire was really a religious struggle. The Rohilla Chief and the Nawab of Oudh, though hating the Afghan, united with him to stem the rising tide of Hinduism. The Mahrattas on their side bent all their energies to the task of assembling a monster army, and are said* to have ac-

Combination of No hammedan powers to crush Mahrattas cumulated a quarter of a million of men before the autumn of 1760

Tor months the armies faced each other in the field of Panipat, and at last on 7th January 1761, the third battle of that name was fought. The Mahrattas had suffered severely from lack of provisions and came half-starved to the fight. They were led by Bhao, a cousin of the Peishwa, under him being Holkar and Sindhia. The wild Hindu onrush at first threatened the Moslems with defeat, but after an exhausting fight Abdali brought up his mailed re-

3rd Butle of Panipal, Mahrattas gave way, and the half-won victory was transformed into

rout The Mahratta hopes of empire were shattered on the bloody field of Panipat The Mahrattas remained a great and powerful confederation, but were unable to become the inheritors of the moribund Mogul Empire Much they had seized from the melting pot,

Withraits dreams vanish but the empire of all India was not for them The future masters of India had already, ere Panipat was

fought, laid the foundations of their Indian Empire Clive had overthrown the French ascendancy in the south the had also planted British rule in Bengal Arcot and Plassey were the foundation stones of the building and neither would have been laid but for the decay of the Mogul Empire Nor could the Mahrattas have reached such a pitch of greatness but for Aurangzeb's failures and the feebleness of his successors The disintegration and anarchy which grew steadily from the death of the last truly great Mogul we have here briefly chronicled By the middle of the 18th century the so-called Emperor at Delhi had come to be little more than the ruler of a small local territory, and generally not even a personal ruler of that, but a puppet in the hands of some resolute intriguer, the centre of factions which brought continued wars and misery to Hindus-The history of the early fifteenth century was repeating itself in the eighteenth, but no Lodi came to the rescue The Empire was clearly doomed to become the prey of the strongest. The Mahrattas were incomparably the strongest and most united power in India but they had been rudely shattered at Panipat Their conquerors were discordant units combining only for the moment and to attain a special purpose In this crisis of her fate India might naturally expect to judge from her past—a conqueror from beyond the mountains. Instead she found one from beyond the The British trading company having burked all European rivals was now embarking on that marvellous series of conquests which culminated in the The British the des Sikh wars sixty years ago The

tined successors of the motive for these conquests and Moguls their nature will be touched upon in a separate portion of this essay, for we have now concluded the history of the Mohammedan India, and are about to enter upon the British period. The Mogul dynasty survived for a hundred years for fifty it retained a shadow of independence, and for another fifty its representative figured as the prisoner of Delhi in much the same sense as the Pope is dubbed the 'Prisoner of the Vatican'. Through the greater portion of these hundred years it is with the British that the

Moguls have to deal Within four Virtual end of the years of Panipat the Emperor Mohammedan period Shah Alam sought refuge in a British camp * Whatever he or his successors possessed was held at the good will of the British, and soon few traces were left of the long Moslem domination in India A new vernacular, a number of exquisite monuments, a few Mohammedan princes, a Moslem minority scattered amongst the Hindu majority in the north and west,—such are the chief legacies of Islam to India † The Mohammedans built up a mighty Empire, but in the main it was of the usual oriental type. embodying few principles of progress, and therefore doomed to fall as the personal qualities of the rulers deteriorated Despotism cannot expect longevity, as despots are not all Akbars

THE BRITISH PERIOD 1

(1) Struggles of the French and English

The foundation of the European settlements under the protection of the Mogul Empire was duly noticed in dealing with the reigns of Jehangir, Shah Jahan and Aurangzeb By 1700 the power of both Portugese and Dutch on the mainland of India had sunk to insignificance. The English, and their new rivals, the French, were the most important of the alien trading communities in India. At the close of Aurangzeb's reign we glanced at the foundation of the French East India Company, and the rapid progress made in less than half a century. Martin was the founder of Pondicherry, and he greatly strengthened the French position by entering upon friendly terms with his neighbours. By 1701 Martin, as governor of Pondicherry,

Growth of French settlements and influence up to 1741 Support of French sulipatam, Surat, Chandanagar, Balasore, Dacca, Patna, and Cossimbazar." Trade flourished, and

his alliance was sought by Indian princes Soon afterwards Surat was abandoned by the French, and governor Lenoir in 1725 established a new fortified post at Mahe on the Malabar Coast Dumas, Lenoir's successor, carried on the enterprising policy of Martin

^{*} Probably without truth. Put at least they outnumbered, the all es. The rait flery also was superior.

^{*} After a few years of personned ea e at Allahabad the Limpero was resented on his throne by Mahritta and but he was nothing by a pupper of the strongest parts, whether Mohammedan or Mahritta. With the Bitt h occupation of De hi in 1803, the representative of the Mogu became still more titular and less freg.

† See Lare P. les Medizial Ind a. pp. 477

An alliance with the Raja of Tanjore brought to the French Karikal, and friendly relations were cultivated with the Nawab of the Carnatic Martin and Duma Marin and Duma When the Mahrattas in 1739 took occasion of the Persian invasion in the north to raid the south, the native princes sought protection in Pondicherry against the plundering hordes of the Bhonsla The Nawab of the Carnatic was defeated, but Dumas by an attitude of bold defence, combined with a judicious present, held Pondicherry safely and received titles from the Nizum in recognition of In 1741 Dumas retired, and Duplers was promoted from Chandernagor to the superior gover-

norship of Pondicherry

The British settlements had likewise been growing in power and importance during these years. Most of their settlements had been acquired before the French ones, for the English had been in I he British settlements the field about twice as long as the In the Carnatic they held Madras with the subsidiary post of St David some hundred miles to the south on the Hugh they held Calcutta or Fort William on the West Coast, Bombay, besides a number of minor factories as at Surat and Patna They had lastly declared war against the Great Mogul in 1685, but the preoccupation of the Emperor in the Deccan had saved them from the otherwise inevitable retribution During the ensuing fifty years their commerce

Character of the two Companies

had grown apace, and the financial position of the Company was more satisfactory than that of the Trench

Company The French Company was closely connected with the Government at home, and was a perpetual tax upon the Exchequer of the Bourbons Had the administration of the French Government in the eighteenth century been intelligent and successful, the state connection might have redounded to the advantage of the French East India Company But the Home Government grew steadily worse during the reign of Louis XV so that the embariassments, vices, and misfortunes of the French regime were reflected in the history of the

Indian Company

The English Company, on the other hand, while it derived its existence from Royal Charter was more independent of Government control In France the Directors were nominees of the Crown, in England, the Board of Directors was appointed by and from the Proprietors who held the Company's stock, and was only occasionally subject to Parliamentary pressure English East India Company was a rich and enterprising corporation which made annual loans to the Government at home, and used this financial leverage to obtain exclusive privileges of trade and the extension of its charter While the French Company embarked upon profuse and often unremunerative expenditure at the expense of the Government treasury, the English Company was a source of gain to the Government, and consequently was more likely to receive Gov-

The English Com pany more supported by the Home Govern ment ernment support Hence, though the Indian Governors of both might be equally enterprising, the attitude

ment at home was more antagonistic to enterprise in France than in England If by any accident the will to back the respective companies should

become equilised, the present strength of the two n India was fauly equal, but the I renen had the advantage of the special prestige required by Dumas with the natives so that a contest would turn on the comparative ability of the Home Governments to throu their weight into the scale As it was however the fivourable inclination of the British Government vis the stronger, and events proved its naval preponder ance to be so complete is entirely to cincel any idvintage won by the temporary superiority of the French personnel upon Indian soil "*

The struggle which we are about to outline cannot be studied without the reference to contemporary European politics. Probably a contest in India was inevitable, considering what a field the India of 1740 offered to the unbitions of any individuals or communities who had the ability and the resources to seize the opportu-

Still there were special reasons why England and France should be Relation of rivalry of I rench and British in India to the I uropean rivals in India The English Revostruggle lution had substituted a rational for

a purely dynastic foreign policy, and under the reign of William III England had embarked upon that career of commercial and maritime supremacy which has built up the British Empire In 1700 Spain still held the monopoly of the trade of the New World and the var of the Spanish succession was-from the English point of view at least-waged to prevent that monopoly passing into the already too strong hands of France What is known as the second hundred years' war between England and France was thus begun and commercial supremacy were the objects of this Whilst France sought predominance secular struggle in Europe she also strove to become a great colonial power But by diverting her energies into two channels, she fuled in both designs. England pursued her maritime and colonial ambitions with a more single nim, and the result was complete success. By 1763 the French had been defeated both in America and India, and though the American war of independence brought her some small revenge Napoleon's gigantic struggle against the mistress of the seas ignominiously failed and confirmed the colonial and commercial supremacy of Britain The contest in India was thus part of a larger whole its progress depended largely on the European situation, and the ultimate result was very considerably due to the course of affairs at home

That European traders, whether French or English should have sought to build up a territorial power in India is not nearly as extraordinary as it seems long as the Mogul Empire retained its strength, no such process could be dreamt of, but no sooner had the
Why the Europeans decline of that Empire begun, than

Why the Europeans were driven to interfere adventurers came forward on all in Indian politics sides and founded kingdoms misrule and disorder were rife throughout the Penin-The prevalent sula, and the strongest gained the day chaos rendered it necessary for the trading companies completely to change their policy they had need to arm and build up dominion for themselves, otherwise they were unlikely to survive the melee The British conquest of India began in self-defence

first by the French in the south, then by the native power in Bengal they took up the giuntlet, and worsted both enemics in turn, but not without the acquisition of substantial territory. Once given a territorial lordship they could not keep clear of the troubled politics of the time, but were drawn more and more into wars and alliances with the native dynasties until their authority overspread the peninsula by virtue of superior discipline, resources and personnel

The marvellous progress of the British arms was made possible just as some interference had been made necessary by the unsettled state of the country. India

has never been more disunited and Why the British ac devoid of a single nationality than quired the Mogul heritage in the eighteenth century and Moslems fought against each other and between themselves Native troops drilled by Englishmen attacked other native troops with as great an alacrity as Germans would attack Frenchmen The conquest of India was then no marvellous reducement of a handful of Englishmen, but a natural and progressive development, the survival of the fittest in an age of disturbance and blood, by means of the weapon readiest to the hand armed and disciplined levies of native These considerations will receive emphasis again and again as we pursue the course of our narrative from the earliest British successes to the final consolidation of the Empire Finally it might be remarked that the acquisition of the lordship of India by a Company was less remarkable than the acquisition of an Empire by an individual Throughout Indian history individuals have risen to greatness by adroitly making use of jealousies and factions rise of Haider Ali, or of Sindhia, or of Holkar, was more wonderful and demanded more of the special favour of fortune than the rise of the East India Company * 1 Company is a corporation, and as such not subject to the risks with which an individual is surrounded It is not liable to be killed in battle or to Its operations are continuous, not limitdie of fever ed by a single life. Thus the achievements of individual servants of the Company were not cancened by their death When therefore it is remembered how many heroes the Company produced, and that their deeds went to swell the general account, the ultimate triumph of the English East India Company appears far more explicable, far less supernatural than it has often been represented

Duplers, who was appointed Governor of Pondicherry in 1741, was a most remarkable man Gifted with genius and foresight, he elaborated vast schemes of Indian dominion and devoted himself to their execution with extraordinary, if obstinately unwise, persistence. He it was who first started on the right

Duplers and his in India The rivilries to the natives and the instability of oriental dynasties, so forcibly emphasized it the time, suggested to Duplers the idea of making the French the determining factor in these rivalries, and thereby building up for themselves a territorial dominion. To ac-

complish this end the English must be driven out, and to drive them out Duplers set himself to discipline native troops and organize them into regiments on The device was obvious enough, the European model but Duplers was the first European to conceive it, because he was the first to cherish schemes which rendered such aid imperative. To assist himself in these schemes he embarked even more lavishly than Dumas in native alliances and met them with their own weapons, astuteness and ostentation In 1744 England who was already it war with Spain over Jenkin's Ears and had recently come to the assistance of Austria in her succession war, declared war directly on France But the home author-Lirst act of the strug ities of both Companies anxious gle between Linglish and I reach in India for dividends instructed their Governors to maintain peace in India Neither Dupleix

gle between Leglish ities of both Companies anxious and French in India for dividends instructed their Governors to maintain peace in India Neither Dupleix at Pondicherry, nor Morse at Madras acquiesced in this recommendation. Dupleix had secured the protection of the Nawab of the Carnatic Anwar-ud-din and was the first to strike. Under request from Dupleix, La Bourdonnus arrived before Madras in 1746 with a squadron from Mauritius, the French naval base in the East. Madras surrendered under promise of restitution on payment of a la Bourdonnus takes.

ransom Duplers, however briffled in his hopes of retrining Madras quarrelled betterly with the Admiral who withdrew on the approach of the monsoon and was shortly afterwards imprisoned in the Bastille for disobedience to Versailles. Duplers being now left to his own devices, retained Madras, promising however to hand it over to the Nawab. But as unwarrantable delay seemed to prove the insincerity of the promise. Anwarud-din despatched an army to compel obedience. The battle of St. Thome which ensued is memorable.

Butle of St. Thome

as the first occasion on which Europeans decisively showed their superiority over Indians both in courage and military skill. It also proved the value of applying European discipline to native levies. In this action 230 Europeans with 700 sepoys drilled on the European model and under European officers, defeated 10,000 purely native troops, who like most armies of the native princes were little more than an undisciplined rabble. Though Madras had fallen, Fort St. David

Siege of Lort St David under a great commander, Major Stringer Lawrence, held out vigorously against all attacks. An

orously against all attacks. An English fleet appeared in 1748 and besieged Pondicherry, but without success. Meanwhile the treaty of Aix-la-Chapelle had brought the European war to an end England had taken Louisberg in America from the French, and by the terms of the treaty it was

Perce of Analy Chapelle 1748 restored in 1eturn for Madras The curtain thus fell upon the first act of the drama The combatants were technically in the same position as before the conflict, but the success of the French had incomparably strengthened their prestige and their hold upon the native mind

In the second Carnatic War Dupler, had wider opportunities of putting his theories into action. The war arose over a couple of disputed native

^{*} Seely Expansion of England Part II Lecture 1

successions, but eventually became a life and death struggle between the French and The Second Act Into the endless the English entanglements and intrigues which accompanied the progress of the war, it is impossible to enter in any detail but a brief outline of the war, its causes and results, will be instructive Dupleix, as in the previous

Dupleix's reasons for entering on the second Carnatic War

war was the first to move, considering and probably rightly, that in order to consolidate French commerce and far more to establish

French dominion, the English must be driven out of the Carnatic Even if this had not been so, it was still necessary he argued, to offer his assistance to some of the contending native princes, for otherwise the assistance of the English would have been obtained, and this would have dangerously increased their power. The offensive was forced upon him by the circumstances of the case. In 1740 the great Nizam-ul-Mulk died and Haiderabad witnessed a

Disputed successions in Haiderabad and Arcot provide oppor

disputed succession But Dupleix's immediate object was to obtain as Nawab of the Carnatic a man who, instead of being the powerful

suzeram of Pondicherry, should be subservient to the ambitions of the French Anwar-ud-din was too recalcitrant, but a suitable creature was found in Chanda Sahib, the chief representative of the late and popular ruling family, which had been supplanted by Anwar-ud-din at the instance of the Nizam in 1740 King-making in the Carnatic was then Dupleiv's immediate aim, his ulterior purpose was the establishment of a strong French party at the Court of Haiderabad The death of the Nizam in 1740 created his opportunity His son Nazir Jung succeeded but the throne was claimed by Mozaffar Jung, a grandson of the deceased ruler Muzaffar sought in vain the aid of the Mahrattas, but Chanda Sahib with whom

Albance between uplers, Muzaffaring and Chanda Duplers, M Jung and

he happened to form a friendship urged the invitation of French assistance Duplers readily acquiesced, and the triumvirate began their operations by falling on Anwar-ud-

din, whom they defeated at Ambur in 1749 The old Nawab was killed and Chanda Sahib was proclaimed Nawab of the Carnatic This battle is interesting as marking the first success of Bussy, a Frenchman who attained within a few years extraordinary power in India He was a most skilful leader, and commanded the French forces at Ambur

Threatened with this dangerous combination, which was bound eventually to be turned against them, the English prepared to take the field They sent home urgent appeals for help, and meanwhile met Nazir

Jung's request for aid by a contin-Battle of Ambur, gent under Major Lawrence Assistance was also sent to Mahommed Alı, the son of Anwar-ud-dın, now proclaimed Nawab

by Nazir Jung For the moment events went favourably with the English and their allies Chanda Sahib wasted time in a futile attack on Tanjore A Mahratta force came to support Nazir Jung, and the opponents were completely routed near Pondicherry Chanda Sahib fled southward, and Muzaffar fell within

a few months into the hands of Nazir Jung (1749), hov -. ever, the battles were again turned. Bupleix by a process of astute intrigue had nearly won over Nazir Jung

Nazir Jung and Mo

to his terms, when the assassination Rival condition of of the Nizam placed the French Inglish Mahrattas, protest Muzaffar, on the throne protege Muzaffar, on the throne (Jan 1750) As meanwhile Mo-hammed Ali had quarrelled with

the English, and was subsequently defeated by Bussy at Punar, Chanda Sahib was restored to the throne of Arcot and Duplers had the satisfaction of seeing both his illies triumphant. That Muzaffar died after enjoying his power but for one single month mattered not at all, for Bussy secured the succession for his own nominee, Salabat Jung, a younger son of the old Nizam-ul-Yulk Bussy now estab-

triumphant, 1750 1

Dupleix and his allies lished himself it Haiderabad with a body of French troops, and he rapidly realized for himself the

position of a dictator in the Deccan But Dupleix's lord-paramountcy was destined to be shortlived, and before the year 1751 was out, the tide began to turn In July 1751 the English were in a critical situation, clinging supinely to their forts at Madras and Fort St David, while French influence overspread But the new Governor, Mr Saunders, inthe Deccan augurated a period of intense activity. He resumed negotiations with Mohammed Ali, who was now holding Trichinopoly against Chanda Sahib's superior forces, and he despitched reinforcements to Mohammed's rid Above all, he rapidly altered the complexion of affairs by entrusting Robert Clive with an independent command Clive had been in India six years and was still under twenty years of age Beginning his career as a 'writer' or junior clerk of the Com-

pany, he had volunteered at the Critical position of English followed by a outbreak of hostilities five years before and had distinguished lumgreat activity, 1751 self in the defence of Fort St

David during the first Carnatic War Now, when desperate efforts to relieve Trichinopoly seemed in vain, Clive suggested a bold diversion on Arcot, the capital of the Lawat Should the attack be successful, the pressure on Trichinopoly would almost certainly be lightened Events proved the truth of these predictions, with a terribly insufficient force Clive started on the road to fame. He had 200 Europeans and 300 sepoys with only eight officers, only two of whom had smelt powder. But the speed of his movements took the garrison of Arcot by surprise It fled panic-stricken, and the fort was occupied without a blow Clive

Robert Clive saves the situation

instantly put the untenable for-tress into a state of defence, surprised and defeated the fugitive garrison, which had encamped out-

side, and calmly awaited the forces which Chanda Sahib was certain to despatch Trichinopoly was relieved by this audacious attack upon the capital, for Chanda Sahib sent a powerful force under his son to attack the English adventurer This force was swollen to 10,000 men before it reached Arcot For fifty days Clive deprived of provisions, defended the crumbling walls of Arcot against a foe twenty times his superior in number The heroic defence induced a Mahratta Chief to bring assistance, with the result that not only was the siege raised but I urther successes of Chie Clive was unabled to sally forth and beat the enemy in a couple The defence of Arcot comof pitched battles (1751) pletely turned the scale. Lawrence now joined Clive with reinforcements and the English proceeded to The French and their illies the relief of Trichinopoly were forced to relinquish the siege they were then manœuvred into an impossible position and surrendered unconditionally finally, Chanda Relief of Trichinopoly Salub was murdered and Moham-1752 med Mr, the British protege, became incontestably Nawab of the Carnatic Dupleix indeed contrived to have himself nominated as Navab by the Nizam through Bussy's influence

Louis and his advisers were at peace in Europe had no wish for another European Reasons for this war, and the superiority of the action English sea-power was a cause of legitimate fear to France Taking all these reasons in combination the French ministry were amply justified in ordering a return to a peaceful commercial policy in India, and in making good that decision by the recall of Dupley himself. The great French empire-builder returned home to be treated with ignominy and to die in poverty ten years later and the new French Governor concluded a treaty of peace with the English in India on the basis of abstention from territorial aggrandizement. It is clear that the wider interests of the French nation required a change of policy in India, and it is equally clear that so long as



ROBERT LORD CINT

and continued the struggle with great activity, but the events of 1752 had made plain the ultimate result Bussy was powerful enough at Haiderabad, and had received a grant of the Northern Sircars for the payment of his troops

But he constantly urged Duplers to make peace, as the Carnatic was stendily falling under the influence of the English, and French prestige was sinking into nothingness. At last the authorities at Paris intervened Millions of francs were being disgorged without effect, and the French Company was confronted with financial ruin Duplers recalled, Duplers attempted to disguise the real condition of his finances, and lavished in abundance from his private store Diplomacy came to the aid of finance in dictating a cessation of hostilities The English Government urged by their Company, were remonstrating against the continuance of this struggle while the two nations



JOSEPH LEANCOIS MARQUIS DUPLEN

England held command of the sea, Duplera's schemes, however brilliant, were doomed to I xpirmation of Du ultimate failure France, situated plery's failure as she then was in Europe, could not have supplanted England in India, and therefore it is untrue to say that her ultimate failure resulted from the recall of Duplers when he was on the threshold of success Duplers was not on the verge of triumph the genius of Clive had arisen to thwart his schemes, and the tide had distinctly turned against him French historians are certainly justified in attacking the French Government under Louis XV—It was notoriously bad, and all along showed itself incapable of consistently supporting the efforts of Frenchmen in India But the single act of Duplers's recall did not destroy French hopes in India If the English in the Carnatic were not superior, they were at least more strongly and consistently supported from home, and

they were backed by a superiority of sci-pover which in the long run determines the success of all colonizing schemes *

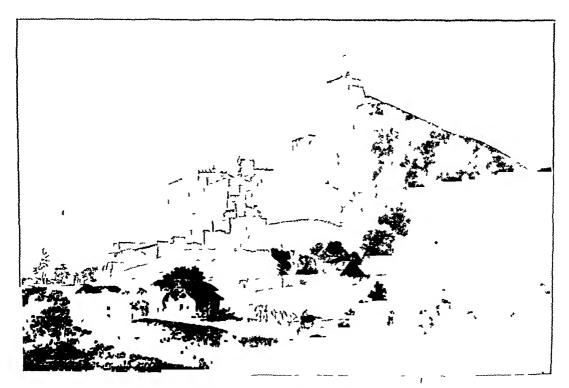
Despite the treaty of peace in 1754 desultory skirmishing continued to take place and it seemed is if French and English could not live peaceably side by side upon the Coromandel Coast. Then in 1756 came the outbreak of the seven years wir in Furope

France unwisely joined the coilition brought together by Maria Theresa of Austria to partition the dominions of her arch-enemy, Fred-

erick the Great of Prussia. England sided with I rederick, and the last act in the long struggle between France and England now began. As before Europe was

preliminary to any enduring French success in India I ally was the son of an excled Irishman. A man of unquestioned valour, he was in the words of the French Minister D Argenson. "A hot-he ided stiffnecked martinet." so overbearing and tactles: that he was constantly hampered by the insubordination of his own men, and the rage of natives where most surred prejudices he contemptuously agnored.

I ally arrived in India in the spring of 1755. Need here a here delives in fitting out the expedition arremed ably lost France the furest opportunity. In 1756 occurred the atrial upon the Linchsh in Beneal by Surij ad Doy Ish and the best troops of the Company had been despatched under Clase to the assistance of Fort William. The



SOUTH-EAST VIEW OF THE ROCK OF TRICHINOPOLA

From a painting by Thomas Daniells, 1798

not the only scene of activity, for the war was carried into India and America. A regular military expedition under the Comte de Lally was despatched to India. The object of the French Government being rather to foster commerce and to harass the English than to found a dominion. Lally received instructions to uproot the English settlements, but not to penetrate inland, or to participate in the quarrels of the native princes. That is, he was definitely warned against reverting to the system of Dupleix, and there is no doubt that the destruction of the English must have been the

* See Mahan's Influence of Serpower on History and Lyall's British Dominion in India Che V & VI

Madras President and his Council, knowing as they did that a French expedition was under preparation for India, deliberately and with rare patriotism denuded themselves of protection in order to save their country-

The fivourable opport tunny lost twelve months earlier than he did, the English in the Carnatic would, have been sore beset. But by April 1758 the Black Hole had been avenged, Plassey had been won the French had been expelled from Bengal and the English had become masters of the province

Clive was now able to assist Madras insterially in men and money Lally's first act was to besiege and take Fort St David As the civil authorities of Pondicherry could not, or would not, provide the necessary funds, Lally sought the sinews of war by Lally takes Fort St an attack on the Raja of Tanjore, Divid 17-8 a debtor of the French Company Recalled by the arrival of a British fleet before his operations were completed he in vain urged the French Admiral to attack the British ships, and then proceeded but without sufficient supplies to his ultimate goal the siege of Madras Bussy was summoned from Haiderabad and not wishing to risk the penalty of insubordination, obcyed the summons, thereby risking the loss of his position already assailed as it was, at the Nizam's Court The year 1759 But fails in stege of brought nothing but disaster Madris 1750 Madras resisted i two months siege and a British squadron arrived in the nick of time as Lally was about to storm the town. He retired hastily to Pondicherry, leaving many guns behind (Feb. 1750) About the same time Clive's genius was asserting itself in the north Bussy's departure from Haiderabad had withdrawn his support from the Northern Sircars, and an expedition from Bengul under Colonel Forde rapidly brought them into English hands The Lnglish capture Masulipatam, the most important Northern Sircurs 1750 stronghold of the district fell, and the Niram, deserting Bussy, made an alliance with the British, to v hom he formally handed over the territories in question. This was the penalty paid by Lally for withdraving Bussy from Haiderabad. The value of Clive's position in Bengal was again felt the same year A brilliant officer, Colonel Lyre Coote, was sent down to take charge of the operations in the Carnatic Coote carried the Fort of Wandewish, and Lally in his attempt to recapture it, had to fight Battle of Wandewash, the battle of that name. The battle was hotly contested, and was notable from Lally's attempt to lead a charge of European cavalry * But the victory of Coote was complete and Bussy was captured Wandawash was a most fatal reverse to the French They could no longer hold the open country, and their strong places were lost one after another. No French fleet assisted the despairing efforts of Lally, but a British squadron arrived to help in the blockade of Pondicherry Insufficiently garrisoned and ammunitioned, the capital of

Capture of Pondi the French settlements surrendered cherry, 1761 in January 1761 and Lally himself was taken prisoner The humiliation of the French was complete Though by the peace of Paris in 1763 their trading stations were restored, they were dismantled and rendered unfit for military purposes French prestige was ruined and the English were in undisputed possession of the field By conquests in India, as in America, the power of England had reached Peace of Paris, 1763 its apex in 1763 The French East India Company was dissolved in 1770 During the • American war of Independence the French Government

attempted a diversion upon the Complete overtarow Indian coasts in concert with Haider of the French All, but the French lacked harbours or roadsteads, and British power was too firmly consolidated in the north to fear any purely naval attack Again, twenty years later, Napoleon's intrigues with our enemies in India caused difficulties and heart-searchings, but any direct invasion by the autocrat of France was rendered impossible by the lack of sea-pover

It was Britain's command of the sea which had turned the scale in the seven years' war both in India Add to that the immense importance of the recent conquest of Bengal whence sinews of war could be drawn, the presence of Chive at Calcutta and the discovery of a talented commander in Evre Coote and we shall not be at a loss to account for the

final overthrov of French aspira-Reasons for their tions in India Had France devoted fultre in India

her energies solely to colonial conquest her overthrow might have been more doubtful But the European war itself a fulure, was the deathblow to her hopes abroad. No nation can afford to scatter her energies least of all a nation so miserably insolvent and misgoverned as the France of Louis Ouinze France still retains a few settlements in India. chief of which is Pond cherry But they are peaceful commercial stations, not very productive to France, and in no viv dangerous to England From 1763 onwards the task of the British in India was to gain ascendancy over the native powers. The last European rival had been overthrown and the native aspirants for dominion verceither too veak or too disunited to make doubtful the ultimate triumph of British arms. How the East India Company were led, often against their will, generally in self-defence, to embark on extensive schemes of Indian conquest will be related in the following sections

(11) THE CONQUEST OF BENGAL

It was in Bengal that the British first directly waged war upon a Native State. In the South of India the enemy had been a European power, and the British had merely imitated French methods in order to overthrow the French They had as-

Bengal the easiest

sisted one or other of the rival gite of approach for factions of certain Native States. the conquest of India and when successful had come out of the contest as the power behind the throne in the Carnatic But they had declared no war upon any unquestioned Native authority in order to In Bengal they were led by acquire dominion the force of circumstances to declare war upon the legitimate ruler of the State, but although the act led eventually to dominion, it was only undertaken in nevenge for insults received. Not only was the conquest of Bengal historically the first direct British conquest of a Native State in India, but geographically it was the first step towards extended dominion Bengal was the most indefensible of Indian frontiers, while it was the richest and most covetable property. It also afforded the easiest approach to the great northern plans and the capitals of the Mogul Empire For a maritime people it was the most useful base in India Hindustan was in the middle of the eighteenth century so disunited and politically unstable that the British might have marched to the conquest of the

^{*} It was first time that I uropean cavality had been employed in

Mogul Empire-such of it is remained-and Oudh, almost directly after their conquest of Bengal But for sufficient reasons Clive decided against such a policy Bengal, however, remained in British hands though nominally under native rule. How and why this domination was brought about must now be

briefly recorded

While the first and second acts of the Anglo-French duel were taking place in the Carnatic, the French and British factories at Chandernagore and Fort William remained amicably side by side, prevented by the strong hand of Aliverdi Khan from extending their conflict to Bengal But in 1756 Aliverdi was succeeded by his grandson and adopted son Mirza Mahmoud commonly known as Suraj-ud-Dowlah This youth of seventeen years, says Orme, "had discovered the most vicious propensities, at an age

Suraj ud Daulah, Nawab when only follies are expected of Bengal 1756 It was one of from princes the amusements of his childhood to torture birds and animals, and taught by his minions to regard himself as of a superior order of beings, his natural cruelty hardened by habit, rendered him as insensible to the sufferings of his own species as of the brute creation in conception he was not slow, but absurd, obstinate, sullen, and impatient of contradiction but, notwithstanding his insolent contempt of mankind, innate cowardice and the confusion of his ideas, rendered him suspicious of all who approached him, excepting his favourites, who were buffoons and profligate men, raised from menial servants to be his companions with these he lived in every kind of intemperance and debauchery, and more especially in drinking spirituous liquors to an excess, which inflamed his passions, and impaired the little understanding with which he was born Add to these defects that he was extraordinarily avaricious and vain of his authority, and it is easy to see that the British in Bengal might expect trouble By the Imperial Firman of 1717 the British enjoyed trading rights in Bengal which the French and the Dutch did not possess These rights had been, on the whole, respected by Aliverdi Khan, but the new ruler neither intended to respect the British nor his nominal master the Great Mogul He, immediately after his accession ordered the British to demolish their fortifications, but trusting rather to

He attempts to expel the British from Bengal 1756

force than diplomacy, followed up the demand of marching upon Calcutta The fort, known as Fort William, was ill-suited for defence and incompetently held It rapidly fell into the hands of the despot, who celebrated the success by the ghastly tragedy of the Black Hole † Before proceeding to tell of the punishment which befell him for the atrocious act it is desirable to pause and inquire what, if any, show of reison, Suraj-ud-Dowlah had for declaring war upon the British

The general cause of the war may be described as discontent of the Hindus with the Mohammedan government under whose tyranny they groaned

Hindus looked to the Europe ins for a deliverei, thereby exasperating Suraj-ud-Dowlah against the British, who were the most powerful Europeans in

Bengal The particular reasons Causes of the war animating the despot in his attack were vanity and avarice He imagined himself slighted by the British, and the enggerated reports of their wealth roused his greed. His pretexts were (a) that the British had made fortifications contrary to the established laws of the country (b) That they had abused the privileges of trade granted by the (c) That they had protected his subjects im The second of these accusations conagainst him tained some show of truth, and in the first matter the British had undeniably disobeyed the orders of Aliverdi

Suraj ud Dowlah's pretexts for attack and his successor, but rather as a protection against the French and the Mahrattas than in defiance

of the Native Government. The Nawab then had some show of reason, "but where he displayed his folly was in resorting to such violent means for reducing to submission a useful people, whom his grandfather had always been able to manage by much milder measures, and in publicly exhibiting his own contempt for law and order by claiming the right to abrog ite the Firmin granted by his own master, the Emperor of Delhi "* That is, he threatened to expel the British completely from his country if they did not instantly pull down their fortifications, and by his seizure of Calcutta he vainly hoped that they would take flight never to return. But his rashness and in-

The Nawab suc cumbs to the punitive expedition from Mad ras, Jan —I eb , 1757

justice speedily recoiled upon his own head An expedition under Clive and Admiral Watson was despatched from Madras, although that colony could ill spare either

Fort William was recovered, and the Nawab's forts in the neighbourhood were captured, while the forces of the prince scattered before the invaders Suraj-ud-Dowlah thereupon collected a great army and advanced on Calcutta, only to retreat to his capital at Murshidabad after an indecisive engagement then made a treaty with the Company restoring their But he possessions and promising compensation secretly entered upon intrigues with the French at Chandernagore and with Bussy at Haiderabad under pretext of the recently de-The British capture of clared Anglo-French war proceed-

Chandernagore, 1757 ed against Chandernagore, captured it, and thereby warned Bussy off from intervention in Bengal Still the Nawab's intentions were manifestly sinister, and something more had to be done to secure the safety of Calcutta before Clive and his troops could return to Madras to face the imminent At this crisis the Nawab's disaffected arrival of Lally ministers and courtiers solved the difficulty by pro posing the deposition of the tyrant with British aid Mir Jaffar, the Commander-in-Chief, was the prospective candidate of the conspirators Clive eagerly entered upon communications with the plotters through a wealthy and unscrupulous Hindu, Ami Chand, known to Europeans as Omichand This

Ormes Hindustan Bk VII Ormes account of the conquest of Bengal and the wars in the Carnatic 18 very detailed and valuable to a vivid account of this tragedy see Macaulay s Essay on Clive

^{*} Bengal in 1756-7 Indian Record Series S C Hill Introduction



LES GRANDS ESCALIONS DU BORD DE GAGNE, CHANDERNACOPE Looking South



QUAL DUPLEIN, CHANDERNACORE, IN 1890 Looking North

crafty intriguer, as greedy of wealth as the Nawab himself, threatened on the eve of the action to reveal the plot druh unless a sum equivalent to a million sterling were guaranteed him But his silence was indispensable, and his demand was more than audacious Hence Clive, with the approval of his colleagues save one, stooped to meet Omichand on his own ground Then took place the famous affair of the double trenty,

a no more disgraceful act, and fai more defensible in its motives than the double Treaty of Dover more Onuchand executed by Charles II and his cabal to deceive his own subjects The traitor was shown a red document containing the terms of the treaty and the promise to pay him blackmail, Admiral Watson's signature-for he refused to sign and authorised the others to do as they pleased-being counterfeited at the base. The real treaty on white paper omitted the obnoxious clause and was not made known to Omichand

Matters being thus arranged, Clive changed his friendly tone towards the Nawab War with the Naw ib into one of thinly veiled hostility Announcing his approach to Murshidabad to consult the Durbar on the subject of British complaints not yet satisfied, he marched upcountry with his army, and the Nawab set fort to meet him Clive had only 1,100 Europeans, twice that number of sepoys and tenguns Should the conspirators, and above all Mir Jaffar with his troops break their promises, the small British force might be defeated, and defeat meant annihilation But retreat meant the abandonment of British security in Bengal, and Clive marched on against the advice of his Council of war

The forces met at Plassey, fifty Battle of Plassey, thousand men against three thou-1757 sand In the historic engagement which followed (June 23) Mir Jaffar played no part, but the odds were still ten to one, and the Nawab was well served by a band of French artillery men Clive's tactics were at first defensive Next an advance was made against the French battery, which was thrown out of action The battle concluded with a general British advance, and an assault upon the enemy's fortified camp, followed immediately by their total rout. The Nawab had himself fled earlier in the afternoon, and the flight of his army followed so rapidly on the British advance that the casualties were but five or six hundred on the Nawab's side, only seventy on the British The worthlessness of the Nawab's troops was significantly proved they were little more than a rabble of hired free lances, no more devoted to their paymaster than the Italian Condotters of the 15th century, and far more incapable on the field of battle. It was not until the Mahrattas and the forces of Haider \li were encountered that the British met with foemen worthy of their steel

Mir Jaffar despite his failure to give active assistance at Plassey, was now elevated to the Masnud, and the ex-Nawab Mir Jaffar becomes Nawab was murdered by Mir Jaffar's son The British were virtually lords in Bengal, and Clive's prestige was undisputed throughout the country

The Emperor at Delhi was at the time in the hands

of Ahmed Abdali* and could not interfere, the French had no power of opposition in Bengal, and the natives were delighted. For I vents in Bengal to Clive, now appointed Governor 1760 of Calcutta, protected the people against the rapacity of the new Navab and kept the realm in peace. I threatened invasion of the the realm in peace Nawab of Oudh it the end of 1757 was quelled by the mere terror of Clive's name when it was renewed in 1759 in conjunction with Shah Alam, the heir of the Mogul, Chie march-

Invisions of Namibor Cd 400 miles in 23 days to the Outh and the Duich relief of Patna, and quickly scattered the foc when again the Dutch, following upon intrigues with the perfidious Mir Jaffar, made a hostile demonstration on the Hugli, Clive promptly contrived their overthrow by land and The Dutch at Chinsura, like the French at Chandernagore, never again hampered the British in With all these pre-occupations in the newlyacquired province (live could afford to despatch expeditions to the Northern Sircars and to Madras Colonels Forde and Coote, together with the men and supplies furnished from Bengal, rendered incalculable service in the final struggle against the French

all his exertions Clive needed rest, and returned to England early in 1760 1760 He was away five years and his absence from Bengal during that period was

infinitely regrettable

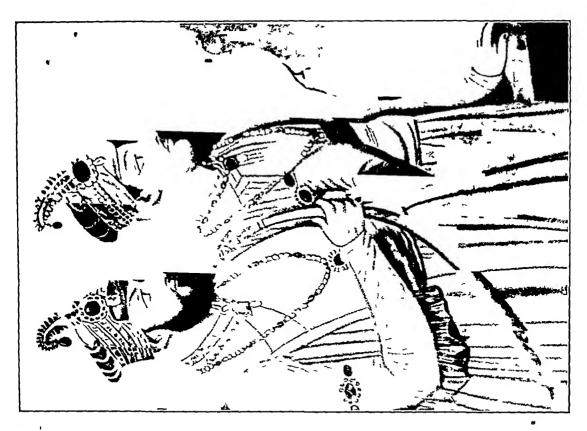
It has been related how the western frontier of the province, that is the part of Behar round about Patna had been threatened by the appearance of the Mogul heir-apparent in 1759 Immediately afterwards on the murder of his father by Ghazi Shah Alam became

Emperor But the presence of Foreign politics, Mahrattas in the north rendered his capital insecure While the campaign which culminated in Panipat was deciding the fortunes of Northern India, Shah Alam attempted to found a basis for his power in Behar and Bengal, and started collecting revenue in Behar Whatever theore-

tical right he had, Mir Jaffar with Contests with the the support of the English deter-mined to oppose him The army of Emperor Shih Alam, mined to oppose him 1750 61 the Nawab and a small British con-

tingent marched west and defeated the Emperor in a couple of engagements (1760) Reinforced by a hundred Frenchmen under an adventurer, the Chevalier Law, Shah Alam then laid siege to Patna, but a small body of European infantry from Murshidabad utterly routed the Imperial army after a cross-country march of extraordinary rapidity Still another defeat was necessary before the persistent Emperor was compelled to evacuate the country Again in the following year he returned to the encounter, but was overthrown at Suan or Behar, and allowed to depart, weary of the hopeless struggle, into Hindostan Delhi was now cleared of Mahrattas, but the unfortunate Emperor fell into the hands of the ambitious Nawab Vizier of Oudh, who kept him for some

^{*} Technically President Hence the term Presidency under the authority of the President and his Council for the territory





years in honourable confinement * The ruler of Oudh, Shuja-ud-Dowlah by name, was himself shortly brought into contact with the growing British power

Mir Jaffar's dethronement Mil Kasım, his successor, had also Mir Kasım's allıance with Oudh, 1763 quarielled with his masters and had sanctioned a brutal massacre

of Europeans at Patna Fleeing from the avenging columns, he took refuge in Oudh, and obtained the support of the Nawab Viziei The British appeared shortly on the frontier and after some indecisive oper-

ations and the occurrence of the first sepoy mutiny,
the allies were signally defeated
Battle of Buxar, at Buxar in October 1764 The 1764 British Commander, Major (afterwards Sir Hector) Munro followed up the victory by the capture of Allahabad, where the Emperor, now released from his vassalage to Shuja-ud-Dowlah, was installed as a British pensioner The Nawab Vizier underwent a final defeat at Cawnpore in the following year, and the Mahrattas under Holkar, who were assisting him were driven across the Jumna campa gns contain some of the most brilliant exploits in the British in litary annals, and they could easily have been followed up by the complete subjugation of Hindostan proper, so distracted was the state of the country, and so great the prestige of the invaders But Clive returned to India at the time, and decided that further conquests were undesirable Home poli-

tics in England rendered Crown Clue's settlement of government in India impossible foreign policy, 1765 as yet, nor could the Company foreign policy, 1765 undertake wider governing respon-ibilities until its constitution should be thoroughly remodelled Even in Bengal it had failed miserably, and there can then be little question that Clive's settlement of the foreign relations of Bengal was wise † Commerce could not yet be abandoned for conquest met the Emperor in person, and re eived the Diwani of Bengal, Behar and Orissa The authority of the Mogul, very mportant still in India, was also obtained to the separation of the Carnatic from the Nizam's dominions and to the British occupation of the Sircars Next the Nawab of Oudh was attached to English interest by an alliance Not even a part of Oudh was annexed, but it was made into a buffer State between Bengal and the northern Mahrattas Clive, in fact, introduced into India the principle of the balance of power, which ruled the politics of Europe in the 18th century As Sindhia and Holkar

were to be balanced by Oudh in ın Indin the north, so was the Peishwa to be balanced by the Nizam in the Deccan In both cases Mohammedan was to watch Hindu Finally, the Bhonsla of Berar was to be conciliated Orissa had practically fallen into his hands ten years before,

and Clive wisely refrained from interfering with tha Bhonsla's collection of revenue in that province despite its inclusion in the Imperial Firman Orissa did not come under British rule until 1803

Domestic problems no less pressing awaited the returning statesman During the absence of Clive the Company's affairs had fallen into incapable and inexperienced hands. The position of the British in Bengal was anomalous and ill-defined The Nawao

of Bengal, like the Nawab of the Anomalous position Carnatic, was in practice the servant of the Company's servants, of the Company in

but the Company had not yet vereign rights The representatives legally acquired sovereign rights of the Company were now advisers who could compel obedience, but their new dominion was not yet authorized by the titular sovereign, the Delhi Emperor In effect their position was even more awkward and anomalous than that of the British in Egypt at the beginning of their occupation But the experience of Empire has now made a practicable course of policy in such circumstances easy of attainment, in 1760 the early British Empire-builders lacked the experience and were confronted with new problems quite beyond their skill The case was complicated by the ostensible aims of the Company, it existed to make money, not to govern subject peoples. Hence nothing in the form of an avowed dominion was claimed, government was left entirely to the native ruler and the officers of the Company, most of them be it noticed, merchants by profession, devoted themselves

Abuse of authority, to amassing the fortunes which their 1760 5 new supremacy brought within their reach The position offered immense temptations, and the Company's servants scandalously abused their position. They entered largely upon private trading, and claimed for themselves the trade private trading, and claimed for themselves by right privileges and exemptions which belonged by right corporate capacity. Even only to the Company in its corporate capacity the Company's native agents asserted a right to these exemptions, and shielded behind their masters used every kind of extortion and oppression while Mir Jaffar was bound by treaty to pay heavy compensation for the losses undergone by the Company at the hands of his predecessor, and for the subsequent war expenditure He was also to receive British troops whenever he should acquire them at his own cost The Company thereupon garrisoned Bengal with their own men, British and Native, well paid from the Nawab's treasury, while the ruler himself had not wherewithal to pay the expenses of his government or to satisfy Finally the Council at Calcutta, not his own troops

realising that the blame of the Nawab's insolvency was their Deposition of Mir Jaffar 1760 own, deposed him for inability to pay their claims, and placed his son-in-law, Mir Kasim, upon the throne. The new Nawab found the position no less intolerable, but he was a man He and determination spirit privately drilled an army of sepoys on the Company's model, and awaited an opportunity to assert himself A quarrel shortly arose between Mir Kasım and the head of the English factory at Patna, Mr Ellis

^{*} But two districts were transferred to Shith Alam for his maintenance. The shrunken Limpire—a territory now much smaller than Oudh—was at the time managed by a Robilli Afghan placed in power by Ahmed Mallin The incursions of Sikhs and lats searcely made restoration desirable to Shith Alam, even had it been possible † The tangled chain of events which preceded Chive's settlement of foreign affairs tree well related by Gull in his standard history, and usefully summan ed by Acceptables Fall of the Moghal Empire, Ch. 1—In matters of fact such as these Gill is a trustworthy guide.

Ellis behaved unjustifiably, as well as rashly, and was imprisoned by his liege lord. The Company then made war on Mir Kasim, who, after defeat, took refuge with the Nawab of Oudh, and helped to bring about that war of which the battle of

Mir Jaffar again Nawab

Buxar was the chief landmark
Mir Jaffar was now created
Nawab, and when he died in

1765, was succeeded by an infant son

Meanwhile Clive returned armed with plenary authority to deal with the situation during his second Governorship, 1765—7 returned armed with plenary authority to deal with the situation. His foreign policy we have already noticed, his domestic

The Company's servants were forbidden to receive presents, or to carry on private trade, and their native

agents were to cease trading under colour of the Company's authority Some, though insufficient, increase of salary was granted in compensation Šimilarly military ceased to enjoy that extra pay which they had received since Plassey, but which had been in intention nothing but a temporary Naturally these measures provoked the most violent opposition But Clive was a man of iron resolution, and no obstacles could bend his will Some control was thus effected over the Company's servants, and some of the most glaring abuses were suppressed Next Clive obtained from Shah Alam a grant of the Diwani-or financial manage ment of "the Subahs of Bengal, Behar and Orissa." condition of paying to the Emperor twenty-six lacs a The Company thus became responsible adminis-

The Dewani granted to the Company and were to pay the Nawab fifty lacs a year to enable him to

ndminister justice and maintain a police force. These measures marked a step forward in the government of the province, but they could not be final, for they elaborated no permanent constitution. Sovereignty to be effective must be indivisible, and the system of dual control now inaugurated, however great an improvement on the previous chaos, was bound to be fruitful in misgovernment and very wasteful. Warren Hastings and Cornwallis had to claim the remaining functions of sovereignty for the sake of the people and of the Company alike. But Clive had accomplished his part of the work well. He had removed the most glaring abuses, and left

the Company in a position to take their first lesson in government. Above all, he laid down a foreign policy for Bengal which was practically adhered to for forty years. His second period of office closed in 1767, when he finally left India. He was equally great in statesmanship and war, and was the virtual founder of the Bitish Empire in India. The opposition he encountered in India had its counterpart at home, and revealed itself in malicious.

chve's latter years attempts to arraign his administration after his return to England But Parliament decided that he had "rendered great and meritorious services to his country" None the less the bitterness of his foes told upon him, and he committed suicide in 1774

WARREN HASTINGS

(III) WARREN HASTINGS AND PARLIAMENTARY SUPREMACY

As soon as Clive's controlling spirit was removed, the dual system he had set up brought about a renewal on a minor scale of the evils he had come to combat in The new system was manifestly imperfect, and could only be kept free of grave abuses by an iron will and a strong hand The Company was under strict order from London to abstain from interference with any other branches of the administration than the revenue and the army Even the collection of the revenue was made over to native officers, who were ımpoverısh able to people at their discretion An attempt was then made by Verelst, Clive's successor, to mitigate these evils by appointing English officers as "supervisors," but the

officers were the boys of the Company's service, and failed to check the prevalent abuses Meanwhile the evil was intensified by a return to the habit of private money-getting by the members of the Company, even

The condition of Ben gal becomes steadily worse after Clive's de parture by the Councillors themselves Then followed the great famine of 1770, which swept away millions of the inhabitants Nearly a

quarter of the land passed out of cultivation, and the misery of the people was intensified by the depredations of banditti and wild beasts * The Company made scandalously poor attempts to relieve the situation, and the condition of Bengal was indeed little better, if not worse, than it had been under the

^{*} Some graphic details will be found in Hunter's Annals of Rural Bengal, a very complete study of the local conditions obtaining at the time of the British conquest

tyrannical native government before 1756 The chaotic state of the country attracted the attention of the British Parliament, and it was clear that the Company's position must be placed upon a more regular footing As early as 1766 the wealth of the Company had resulted in a law binding the Directors to pay £400,000 annu-

ally to the Crown But within a Parliamentary few years from that date malverinterference and maladministration sation had so sapped the Company's resources, that not only was this tribute not forthcoming, but the Company actually approached the British Government for a loan (1772) At this time Lord North, himself hostile to the Company, ruled both Houses of Parliament with undisputed sway The Select Committee appointed to investigate the matter condemned the Company in their reports, and the Commons declared that all acquisitions made under the influence of a military force, or by treaty with foreign princes, of right belong to the State The time was however, not yet ripe for bringing the Company's dominions directly under the Crown all that was done was to assert Parliamentary supremacy and to give the Company its first governing constitution Lord North's Regulating Act of 1773 began what with relation to the British possessions in India may be called "the Period of Acts of Parliament". From 1600 to about 1760 the Company was virtually uncontrolled this was the period of Royal Charters The period of

control by Parliamentary Acts North's Regulating ended with the introduction of Act, 1773 the Crown Government in 1858 * By the Act of 1773 the administration of Bengal was placed on a regular, though exceedingly imperfect, footing A Governor-General and four Councillors were appointed, the first batch were named in the Act, but the patronage was to be subsequently vested in the Company The supremacy of the Bengal Presidency over Bombay and Madras was declared, and the Governor-General with his Council alone had the power of declaring war and making treaties A Supreme Court of Justice, appointed by the Crown and independent of local authority, was established in Calcutta, from this Court an appeal lay to the King-in-Council That a definite executive authority should be established in Bengal was a great advance, but the new system was clogged with an

Defects of the new constitution was the voting being equal a majority of the Council was to be the supreme local authority. The evil effected by this injudicious provision was incalculable. Another defect was the ill-defined jurisdiction of the new Court

It claimed jurisdiction over the whole native population, as also over the Company's servants even in their official capacity. The judiciary, in other words, claimed authority over the executive, and denied the sovereignty of the Council These impracticable claims were eventually defeated, but the attempt to make them good hampered the Government most disastrously at a time of crisis

The first Governor-General of British India was Warren Hastings, at the time Governor of Bengal He had been one of Clive's right hand men on the Calcutta Council, hado lately done

Warren Hastings, good work in Madras, and was 1772-1785 appointed by the Company Governor of Bengal in 1772 He ruled from 1772 until 1785, for as Governor, two years Before Lord eleven years as Governor-General North's new system came into force in 1774, Warren Hastings had already done much His strong arm had purged the administration of its most grave abuses, the control of the Revenue Department had been removed from Murshidabad to Calcutta, and an efficient service of European Collectors organized An importtant addition was made to the machinery of the State by the establishment of Courts of Justice with European Magistrates (identical with the Collectors) in each district, with a Court of Appeal at the Capital But criminal jurisdiction both in the district and Appeal Courts was still left in the hands of native officers The foreign policy of Hastings' whole regime will be dealt with continuously, suffice it to say that he carried through the much blamed Rohilla War in his capacity of Governor, and that the intrigues at Poona which led to the far-reaching First Mahratta War were already on foot in 1774 When the new Members of Council arrived in October of that year, Hastings found himself in a most trying position Three out of the four Councillors declared against him and set themselves to frustrate the policy of the Governor-General by their insidious coalition Philip Francis, the probable author of the Junius Letters, was the leader of the Triumvirate, Clavering and Monson his unwavering supporters The fourth and remaining Member, Barwell,

A minority of the Council was consistently loyal to Hastings, but by the constitution of the new Council, the votes of three Members were decisive Everything that Hastings had done was condemned, everything he tried to do

was misrepresented and opposed

Whether their course was reasonable or salutary mattered to them little personal hostility completely submerged all considerations of public good. It is apparent that Francis coveted the office of Governor-General and expected to satisfy his greed by making Hastings' position untenable. The first great difference took place in connection with the Nawab of Oudh. When Shuja-ud-dowlah died in 1775, his mother and widow, the famous Begums of Oudh, claimed treasures and estates to which they had no legal right, and without which the New Nawab could not conduct his Government or pay his troops. Hastings rightly supported the Nawab in his claim to the treasure, but the Triumvirate out of sheer opposition seconded the

Affairs of the Begums of Oudh 1782

years, when Hastings had been freed from the tyranny of the civilian coalition, the Nawab of Oudh fell into arrears with the subsidy paid by him for the support of British troops

Begums and guaranteed their possession of the property * The requirements The national guaranteed their possession of the property * The requirements In later the support of British troops

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Begums and guaranteed their possession of the property * The requirements In later the support of the civilian coalition, the Nawab of Oudh fell into a support of British troops

Begums and guaranteed their possession of the property * The requirements In later the support of the civilian coalition, the Nawab of Oudh fell into a support of British troops

The Nawab needed money and

The constitutional bittory of English dominion in India is most satisfactorily handled by Sir C Ilbert in his Government of India

^{*} It was on this occasion that the cession of Benares was demanded

Hastings needed money, hence the Nawab was authorised, nay assisted by the Company's troops, to seize the property and treasure of the Begums Though violence had to be resorted to, the Begums obtained an abundant pension, and, as we know, bore Hastings no grudge for his share in the transaction The obstinacy of the Council was responsible for the non-execution of this claim when it had a greater show of legality, and the fact that the very existence of the British in India was at the time imperilled for want of funds may to some extent justify Hastings in his action He felt that the interests of his government demanded an arbitrary act, and no thought of private obloguy made him hesitate

Next came a personal attack on Hastings Charges of corruption against him were welcomed by the Council An old enemy, Nuncomar, came forward

with a string or concocted The affair of Nuncomar fables, and the Triumvirate de-**1775** manded that he should be heard

before the Council Hastings with dignity refused to be arraigned before his own Council, but offered to submit the charges to a Committee unexpected defender appeared in other quarters Nuncomar was accused of forgery before the High Court by a personal enemy with whom he had carried on a private feud for many years The case had nothing to do with the charges against Hastings, but the defendant was convicted, and as forgery was a capital offence according to the English Law of those days, executed Sir Elijah Impey, the Chief Justice, though a friend of Hastings, was not, as had been now amply proved, incited by the Governor-General Hastings had no connection, open or covert, with the trial, it was conducted with absolute fairness and the Judges were unanimous in their verdict. As even the Triumvirate, the friends of the accused, took no steps in his favour, the sentence was duly carried out * Still the rivalry with the Council continued, and the intestine struggle most dangerously hampered Hastings in the critical situation caused by the outbreak of the Mahratta War However, Monson, one of his Mahratta War However, Monson, one of his opponents, died in 1776, and Hastings became at length predominant

For five years he retained the supremacy,† and well he needed it, so dark was the horizon, so great the difficulties created by the confederation of allies in the Deccan, and the administration of affairs in Bengal

The contest between the Council and Supreme Court

The chief domestic problem which remained was the position of the Supreme Court Its contest with the Council consistently hampered

the work of government, and at last Hastings had been constrained to make use of the military in disregarding the processes of the Court A compromise was now made with the Chief Justice, by which an appeal from the Civil Court in the districts should be

transferred from the Supreme Court to the Company's Chief Court, the Sadi Diwani Adaulat, Impey agreeing to sit as Chief in this Court in the position of the Company's officer The deadlock was then removed, greatly to the advantage of all parties, and especially to the people of Bengal

At the same time Hastings established a Revenue Board to enquire into land tenures, with the object of devising some systematic assessment of the land tax It was not, however, until the time of Cornwallis that

these inquiries bore fruit in a per-Subsidiary alliance manent assessment Freed from with Oudh, 1777 the control of an inconsiderate opposition, Hastings made tighter the bands which

had united the British in Bengal with the Nawab of Oudh ever since the advisability of such an alliance had been laid down by Clive By the new agreement which may really be ranked as the first example of our 'subsidiary alliances,' the Nawab was to have "an army drilled, officered, controlled and paid by the British, who in return were to have the revenues of certain districts allotted to them for that purpose' The dealings of Hastings with another native prince of north India may here be briefly summarised

In 1775 Benares had been transferred from Oudh to the British on the order of the Council * The land lord of the district had thereupon been elevated to the title of Raja, and was subject to the usual responsibilities of a feudatory Nor the least of these assistance in war whether by armed forces or extra pecuniary contributions In 1778 the Governor-General was in the greatest difficulties supply funds for the extensive operations into which he had

Cheyt Singh the Raja of Benares

been unwillingly dragged A contribution of five lacs was demand-

ed from the Raja of Benares, and paid In 1779, it was again demanded and paid But further war supplies were indispensable, and when the Raja failed to provide a contingent of horse,

Hastings dealings With Hastings, suspecting Mahratta inhim, 1778-9 with the greatest severity A fine of fifty lacs was demanded, and the Governor-General proceeded to enforce it in person The Raja was placed under arrest in Benares an insurrection broke out, Hastings was nearly captured, and the Raja escaped Hastings' calmness and vigour soon quelled the rising by the aid of British troops, and a new Raja was set Whether Hastings was technically justified in proceeding with such severity upon a prince whose loyalty had not been disproved, is a moot point, according to most moral standards he behaved with undue harshness But there is no doubt that his harshness subserved the interests of his country, it enabled him to fill the Company's coffers, and prosecute vigorously a war which otherwise might have had a disastrous result, and indefinitely retarded the extension over India of the Pax Britannica T

^{*}See Macuilays I ssay on Warren Hastings He uses the case to blicken the name of Hastings and Impey by arguing on a theory of probabilities instead of relying on well substantiated facts.
†But Franci was still a thorn in his side. Provoked at last beyond endurance, Hastings drove him into a duel and wounded him so severely that he had to leave for England in 1780. His machinations in England were no less malicious and even more disastrous than his opposition in Calcula. in Calculta

^{*} On the death of Shuja aid doulah the cantankerous Council dictated a new agreement with his successor, much against Hastings will terms of which the cession of Benards was one, were unduly severe † See Keenes History, Vol I, p 242

The Bennes aftur, the treatment of the Oudh Begums and the Robilla War are the three acts which Histings' enimics—and they were many-fistened upon morder to prove that the great Governor-General

kectitude and lofts character of Hastings wis i wintonly iggressive terint But in all three cases he was persuided of the justice of his

course. In none was there any personal advantage to be guned. Indeed had Histings allowed himself to be swayed by personal motives he would have abstrained from acts which vere bound to harm

his reputation but in that case the British armies in India would have remained unsupported and the rising British power would have been overwhelmed We may well imagine him to have thought what Danton sud "Ict my good name be turnished so that my country prospers' Nor must it be supposed that he required funds to maintain wars of aggression Most of the wars he conducted were entered upon largely against his will, and in the case of the great conflict with Mysore, the British attitude was essentially defensive

An account of Warren Hastings' relations with the Native States involves a brief statement of the Company's extern al policy immediately preceding Hastings' accession to power Chie had left Bergal in a state of peace when he retired in 1767 Madras and the Carnatic had been left in tranquillity by the Peace of Paus in 1763 Bombay and Surat had enjoyed uninteriupted freedom from attack since the time of Shivaji With the establishment

External relations, 1767—1785

by Clive of a sound system of external policy in the north, the scene of the action shifts to the south and west The north remained tranquil with

slight exceptions until the end of the century Though the Mahrattas effected the escape of Shah Alam from Allahabad in 1771 General trends of events and placed him as their puppet upon the throne of Delhi, their influence in this region was hardly yet continuous and dangerous, and it was not until the time of Wellesley that

the great. Mahratta irruptions, need stated a for y and policy in the north. The lettery of Pengal then during this period is mighly of internal interest, and centres round the evolution of a sounder administrative system under the direction of Willen Hitting and Corns dl. Pet in the centre of India the Miliritt's dingerously threaten d. Pomboy within ten year of Chies departure and the croping power of Mysore all but drove the British out of Mulris a few years later



HAIDLE ALL, NAWAR OF MASORE

of creat natural cenaus and military knowledge Possessed of unusual darme and consummate cumming he vas a master in the irt of minigans mercenaries Having rien by his abilities to be Commander n Chef of the arms in the service of the Hindu Raps of Mysore he had deposed his master in 1761 and proclumed himself Sult in of the state. He rapidly ex-tended his boundaries it the expense of his neighbours carried his arms to the Malabar Coast tore off strips of the Nizam's territories, provoked the Wahrattas and threatened the Curnatic. His seizure of Calicut in 1766 instig ited an alliance between the Nizam and the Mahrattas into which the British of Madris by reason of an importint treats with the Nizim were drigged iguinst their will. Con-tronted by this triple power Huder bribed the Mihrittis to retire and cunningly persuaded the Nizim to attack the British in conjunction

Hoder Moors emin

A couple of British victories and the with himself advance of a force towards. Huderabad however Mysore under H ider Mi persuaded the treacherous Niz im to make mother change of front He sued for peace and Haider was left alone to face the British But the Madras Government was it this time notoriously incomlirst My ore War 1766-9 petent. The war dragged on Colonel Smith, a capable Commander, who had victoriously penetrated to the heart of the enemy's country, was shamefully superseded and Haider's fair offers rejected. Haider rapidly

racovered his lost

The treaty of p1769, the cause of much subsequent trouble

ground, assumed the offensive, and finally dictated terms of peace within sight of The war was a blunder Madras from beginning to end, and the treaty which concluded it was the worst mistake of all The Madras

Government bound themselves to assist Haid r in case of attack by the Nizam or the Mahrattas, but when in the following year Haider came to blows with the Mahrattas, and had the worst of the contest, the British, being called upon to assist, refused to interfere on the ground that Haider was the aggressor Whether they were right or wrong, their inability to conduct another wa compelled them to observe neutrality Haider's losses in the Mahratta war were however the measure of his indignation against the British, he never forgave them, and he had his revenge when six years later he entered the great anti-British confederation and seriously jeopardis d the very existence of the British power in India

Before Hastings was faced with Mahratta and Mysore troubles, he conducted the famous Rohilla war in the north Even that war, however, was suggested by the Mahratta peril The Rohillas and the Oudh Nawab could barely hold their own against the annual plundering expeditions of these hardy foes Now the independence of Oudh and Rohilkhand was necessary to the security of the British frontier Accordingly, when the Mahrattas invaded Rohilkhand in 1772, the Nawab of Oudh assisted in driving them off, and the authorities at Calcutta only stopped short of an actual declaration of war to achieve the same end In 1773, however, all three powers co-operated actively,

and compelled the Mahrattas to The Robilla War, The Rohillas had only withdraw obtained the Nawab's assistance

under promise of a subsidy of 40 lacs of rupees, of which when the danger had passed away, they evaded payment The Nawab Shuja-ud-doulah then resolved on the conquest of Rohilkhand, a district which he had long coveted He implored the assistance of the British, promising Hastings funds of which the Company was then in urgent need, and asserting as a protext that the Robillas were intriguing with the Mahrattas, and were thus a common danger to the stability of Oudh and Bengal Hastings acquiesced British troops were lent to the Nawab, and Rohilkhand was conquered with "gross and superfluous violence" The affair was hardly creditable to Hastings Doubtless he needed money, doubtless the Rohillas were usurpers, in the strict sense of the term and doubtless the transaction was of a kind common enough in India, nor regarded as unjust by the Oriental standard Again the Robillas might quite conceivof state-craft ably have joined the Mahrattas and thereby have brought the safety of the British dominion into danger , But no specific charge could be brought against them and expediency is not the sole principle of action in

international relations Criticism of Warren the Rohillas were no more usurp-Hastings action ers than the British themselves or the Nauab of Oudh himself for technically all those princes and ruler who claimed independence on the break up of the Mogul empire were usurpers

was it proved that the Rohillas meant entirely to refuse the payment of their subsidy Even if they had the annexation of their whole territory was rather a disproportionate punishment But it should be remembered that the high ideals of statesmanship which Hastings, to judge by several of his actions, lacked, and of which his enemies in England hypocritically claimed possession, were not by any means universally accepted even in the Europe of that day Frederick the Great and Napoleon after him carried expediency into politics with cynical indifference to moral claims The Siberian war, the Partition of Poland, and the Partition of Venice, are on most counts more culpable than the expulsion of 20,000 Rohilla Mghans from a Hindu country which they had not governed half a century

The Rohilla war was the only one directly planned and undertaken by Hastings, but within a few months of entering upon the new office of Governor-General,

he was involved in a series of Disputed succession complex negotiations with the at Poona 1774 Mahrattas, which through the precipitation of the Bombay Government, led to the most serious and protracted war that the Company had ever been compelled to wage disputed succession at Poona Madhu Rao, the Fourth Peishwa, who had ruled since Panipat, died still young in 1772 His younger brother succeeded him, but was assassinated within a year The notorious Raghoba, uncle of both, was probably instrumental in the murder, and now claimed the succession But he was regarded with hostility in many quarters In 1774 Nan i Farnavis, a Poona Minister, proclaimed as Peishwa, a posthumous son of the murdered chief Raghoba sought the assistance of the great Mahratta chieftains

Treaty of Surat between Bombay and the Pretender, 1775

with only partial success, and also laid his proposals before the British Government in Bombay Bombay was not blind to a blind to a

chance of obtaining ascendancy at Poona, but above all, it wanted Bassein, and the island of Salsette I bargain was accordingly struck with the Pretender, and embodied in the Ireaty of Surat (1775) Calcutta Council condemned this treaty, declaring the meditated war 'impolitic, dangerous, unauthorized and unjust' As it turned out, the shortsighted Bombay Government had embarked the Company upon a sea of troubles which within a few years extended over the whole Peninsula But despite their subordination to the new authority at Calcutta the Bombay Government entered upon operations without awaiting authority. Salsette and

Bassein were occupied, and 3 000 First Mahratta War troops went to the assistance of Battle of Arras 177 Raghoba Starting for Poona

from their base in Gujerat, they found their passage disputed by a Mahratta army at Arras, near Baroda The Mahrattas although they outnumbered the British by ten to one were driven in disorder across the Hastings saw the danger of retreating Narbadda when once Bombay had been committed to the var, but he was overruled as usual by his Council An envoy was despatched to Poona to disavov the former treats and despite the fact that the campaign had gone in

favour of the British, to conclude a new one on far Raghoba was no longer to be supported and Salsette alone was to the treaty and by their countenance of mother Claimant to the Peishwaship, an impostor—paved the way for fresh troubles Rut by 1778 coveral the way for fresh troubles But by 1778 several the way for fresh troubles important events had occurred the Regency Council at Poon, and a French adventure. St Lubin arrived ing, and a French adventurer, St Lubin, arrived at Poona With a fictitious promise of French intervention Meanwhile Hastings had got the upper-hand in his Councils The French spectre inclined him to vigorous action, for France was on the

Wugaon, by which Raghoby was thrown over, and f return was made to the status quo brilli int march of Goddard across 1,000 miles of difficult disavoured and when the Dooms authorities refused to of 1773 But this slur on British prestige was stoned for by the disavowed, and when the Poona authorities refused to lower their terms, Goddard over-

forces of Smellin and Holkar, and finally separated ran Gujerat, captured the capital of Ahmedabad, dispersed the the Greek ir from the coalition \ few months later Popham began a series of successful operations in northern Malwa Gwallor, deemed impregnable, was a brilliant could de many a feat which



eve of declaring war against Great Britain and had already given considerable and to the rebellious dangerous assistance to the Mahrattas Consequently colonists in America Hastings wrote to Bombay authorising war F_{rench} Hastings wrote to Bombay authorising war A new the expedition from Rangal had not before treaty was concluded with Kaghoba, but before the expedition from Bengal had arrived to make victory possible, the Bombay Government had despected an insufficient and badly organized force on The folly of this action patched an insuricient and bacily organized force on The folly of this action a nazardous march to Foona The Toury of this action was soon apparent the expedition blundered into premature retreat, and after narrowly escaping annihilation concluded the disastrous convention of

Capture of Gwalior chief was finally defeated in and thencethe following year, and thenceclude a peace between the British and the Mahrattas Clude a peace between the British and the manrattas against the British The declaration of war by had induced Hastings to prepare for forward made it his object to con-

France in 1778 had induced Hastings to prepare for a first conclusion of the first conclusions at once France in 1778 had induced Hastings to prepare for considered it advisable to try conclusions at once ordered the promotive ordered the promotive ordered the French

promptly ordered the French Mihe on the Malahar Coast was asserted cized by Haider Ali to be under his protection, and the seizure Settlements in India to be

or it in spite of his prohibition hastened on the formation of a powerful anti-British confederation Nizam, Haider and the Mahratta chefs now formed a league for the expulsion of the British from India, and backed by the expectation of French assistance,*
they were a most formidable coalition "The Bhonsla they were a most formidable coalition was to deal with Bengal, the western Mahrattas with Bombay, Mysore and Haiderabad were to invade Madras" At the same time Spain, Holland, France and the American colonists were united in an attempt to humiliate Britain in the west Never save in the giant duel with Napoleon, has she been opposed by such a formidable array of powers That she did not completely succumb in the west is due to the fact that she had not completely lost command of the seas, that she triumphed in India is due partly to the fluctuating character of the coalition, partly to the masterful vigour of the Governor-General

In the summer of 1780 Haider Ali with nearly 100,000 men burst like a tornado upon the Carnatic Madras throughout the last portion of the 18th century was the evil genius of the British in India During the seven years ending in 1781 two Governors had been dismissed by the Directors, one had been

Second Mysore War, suspended by Hastings, and a 1780-4 fourth deposed by his own Council

Corruption and incompetence were rife in the southern Presidency, and on this occasion as on others no preparations had been made to meet the storm The whole responsibility for providing men and money devolved on Hastings, whose resources were already depleted by the Mahratta war

Haider Alis invasion of the Carnatic, 1780 and the calls of Bombay Before, however, he could come to the

rescue, a series of reverses had been sustained Haider pillaged the Carnatic at his will, cut up one British army, and drove back a second in tumultuous A little longer, and he might have rout upon Madras captured Madras itself But with the following year The Nizam had without the tide of fortune changed

much difficulty been detached Improved conditions, from the alliance, the Bhonsla, 1781 jealous of the Poona Regency,

showed himself friendly to the British Sindhia, deafeated in 1781, made peace the same year, and the Gaekwar had already been separated from the confederacy Any Mahratta successes which had by Goddard recently been achieved were credited to Holkar, and

Madhoji Sindhia, a consummate Treaty of Salbai (1782) ends the 1st Mahratta statesman, who played for his own hand, now aimed at frustrating his War rival's piedominance This could

best be accomplished by bringing the war to an end Actual hostilities with the Mahrattas ceased in 1781, and Sindhia acting as plenipotentiary, brought about the treaty of Salbai, by which the English retained Salsette, and the Mahrattas bound themselves not to admit the French or Dutch within their dominions

By 1781 the veteran Sir Evre Coote had arrived in Madras to take charge of the operations against Haider Ali, who as we have seen was rapidly being deserted by

But he was a power in himself, and Coote his allies was scandalously hampered by the Madras authorities and by want of funds * Still in

Sir Lyre Coote's successes three summer months he was in Madras 1781 victorious in three engagements, and Haider, who fully recognised the qualities of the old campaigner, began to despair of ultimate success

His French allies had not come to his assistance, his Indian allies had deserted him. The sea was still open for the arrival of British reinforcements, and the important harbour of Trincomalee was shortly captured from the Dutch "I may ruin their resources by land," said Haider, "but I cannot dry up the sea, and I must

Haider Alı loses ground, 1782

be exhausted by a war in which I can gain nothing from fighting " By 1782 Haider was fairly disabled, and the cutting up of a

British detachment under Braithwaite was too late to turn the scale In December the old lion of the Car natic died, and Sir Eyre Coote soon followed him to the Tippoo, Haider's son, continued to carry on grave the war, and was encouraged by

Arrival of French troops and ships 1782-3

the presence of a French Squadron under Suffren, and the arrival of old hero Bussy Suffren was troops under the opposed by the English Admiral Hughes, but all the French and Dutch possessions had been occupied by the British, he had no base of supplies or repair Five

and Suffren, unable to strike any effective blow, rejoiced to hear in July 1783 that Peace of Versulles, peace had been concluded between 1783

obstinately contested naval battles were fought (1782-3)

France and England He sailed for Europe, and Bussy, after accomplishing little of importance, also left the stage

Tippoo, left alone, had besieged a small force in Mangalore for nine months, until the Tippoo conducts the heroic garrison, despairing of n ar alone assistance, and half starved, sur-

rendered to the Sultan and his 100,000 men The heroic defence of Mangalore under Colonel Campbell of the 42nd, is one of the most brilliant achieve ments in military history Meanwhile an army under

Fullarton was penetrating to the Siege of Bangalore heart of Mysore and would have 1783 brought the war to an honourable termination, but for the folly of the Madras authorities

Macartney set Hastings at defiance over the negotiations and after the British Commissioners had been treated with every indignity, peace was concluded on the basis of a restoration of conquests But for Madras, Fullar-

ton could have occupied Serin-Operations of Fullation, gapatam, and the remaining 1783 Mysore wars need never have

arisen No addition to British territory beyond the occupation of Salsette was made by any of these wars In one sense perhaps this was as well, it showed that territorial aggrandizement had not been their occasion, but still the settlement was incomplete and left a fresh

^{*} Marshman's History of India, Vol 1, p 398 Marshman provides an exceedingly reliable account of these operations

^{*} An interesting commentary on these events can be found in Lawson's Memories of Madra. Lord Macartney then Governor, persistently thwarted the Commander in Chief by asserting the superiority of the Civil power 1781 was certainly not the time to discuss that question

crop of troubles to be dealt with by Histings' suc cessors the great Covernor-General consured by the Directors Peace concluded 1781 and attacked in Parliament, re-

signed his high office in 1785, as soon as he was able to have peace and order behind him. It is impos-

resignation, 1785

sible to estimate his services The achievements of too highly Hampired by focs in the Council, and by the Directors in London he had set in order the chaos of Bengal misrule, ' had drivin

the ground-plan of reg ular systematic proce dure in almost all departments of executive government and above all had saved the State in its acutest crisis." But for Hastings' resourcefulness and indomitable resolution British rule in India must have succumbed to its numerous foes in the great war just waged It Clive laid the foundation of British India, Hastings saved that power from being annihilated in its infancy The treatment meted out to him in England on his return is a matter of ignominy to the politicians of the time, but some satisfaction must have resulted from the knowledge that by Native and British testimony alike his work had been appreciated to the full in the India that he loved so well

(IV) EXPANSION OF BRITISH DOMINION CORNWALLIS AND WELLESLEY



TIPPOO SULTAN, NAMAB OF MASORE

From a painting by Lieut Col Dorelon

After Sir John Macpherson had ably acted as ad anterim Governor-General for twenty months, Lord Cornwallis arrived to assume the office under new and more satisfactory conditions m 1786 Indian affairs were now steadily being brought within the current of domestic politics in London A

conviction was abroad that the East India Company had become too powerful for a trading corporation, its position was an anomaly which many statesmen thought should be termin-

ited lox in 1783 brought in a bill to trifffor the Company's authority to Parliamentary Commissioners. Buile supported it by a poverful though exaggerated declamation against Loys I at India Bill the sins of the Company and the enormities of Histings But the

scheme was alleonsulered and arbitrary. While rightly requiring greater powers to be vested in the Governor-General, and greater responsibilities to be assumed by the British Government it home it innihilated at one blow the patronage of the Crown and the patronage of

the Company, by transferring the bestoval of all appointments to the Commissioners it intended to create 1 storm of opposition vas aroused in the bill became the bittleground of Parliamentary strife and King George III contrived through the House of I ords the overthrow of the condition under whose auspices Fox had introduced his bill William Pitt the younger now became Prime Minister and his first important achievement was the Indian Act of 1784 It carried out min of the remedies proposed by Warren Hastings and it avoided interfering too largely with the legitimate patronage of the Company While the Presidencies of Madras and Bombay were each to have their own Governor Council Commander-ina n d Chief they were to be subordinated more completely than before m diplomacy war and the application of revenues to the Governor-General and his Commander-in-Chief in Bengal Governor-General was given very full powers,

and a supplementary act in 1786 allowed him to override or act without his Pitts \ct. 1784 Council on emergency So far the. The new system of Control consisting of a Minister and six Commissioners—four being Privy Councillors—was created to

supervise the transactions of the Directors. This Board was to have access to all correspondence and was given power "to cheek, superintend and control all the acts, operations, and concerns connected with the Civil and Military Government, and the revenues of India". The system was to some extent cumbrous but the newly applied principle was unquestionably just. When, however, the Act declared it to be incumbent on every Governor General to pursue a policy of non-intervention in the wars and alliances of the Native States, it proved that even the greatest statesman of the day, misunderstood the condition of Indian politics. Such a policy had been tried in vain by Hastings and Cornvallis, who left England with the turn intention of devoting himself to peaceful consoli-

supported rather than thwirted by the inthorities at home and the confidence inspired by his sense ind judgment procured for him i far greater latitude than his predecessor had enjoyed. His first act was to attack the abuses of jobbery and corruption which still survived owing to the ridiculously low salaries given to

the Company's officers He forced through a reasonable increase of salary, a concession which neither

Clive nor Hastings had been able to extort from the Directors. Later in his rule Cornwallis carried out a series of important changes in the administration of Bengal. Four English criminal circuit Courts were set up, as the Mohammedan criminal judiciary confirmed by Hastings had proved inefficient. In addi-



TAPI COLNWALLIS, & C

dation and retrenchment was himself soon destined to find that diplomacy and aloofness would provide no guarantee against anti-British aggression in those days of turmoil. So far from being able to pursue a course of peaceful neutrality. Corny allis and Wellesley, the next great Governor-General were involved in widespread wars and were between them responsible for the greatest expansion of the British dominion which had been yet witnessed. This proves how feebly the tendencies of the time could be resisted.

The Governor-General was now hardly an officer of the Company but rather the embodiment of English sovereignty in a new and definite way. He was



Margus of Welleslia

tion four provincial Courts of Appeal for Civileases were established and Magisterial and revenue functions were completely separated—a reform Hastings had tentatively embarked upon A codification of the Civil law greatly assisted the course of justice. But in criminal jurisdiction Mohammedan lay yas in the main retained. Finally the currency was purified and an assessment of the land undertaken. The settlement of the land revenue founded upon this assessment was known as the permanent settlement and is still retained with modifications in Bengal.

It is based upon the theory of landlordism such as obtained most strongly in the England of that day Cornwallis found scattered throughout the country local magnates commonly styled zemindars. These

Iddignant at Tippoo's brutal persecution of Hindus The war ended favourably for Tippoo, however, and the despot turned himself afresh to the extirpation of Hinduish in the south Knowing that the extermination of the British was the Sultan's ultimate object, Cornwallis, in return for a long promised territory—the Guntur Sirkai, around Masulipatam—undertook to assist the Nizam in the event of a fresh war between him and Mysore Tippoo soon brought matters to a crisis by

Third Mysore War, 1790—2 brought matters to a crisis by attacking Travancore, which had in 1784 been placed under British

protection The gage of battle was taken up by the Nizam, and the British and the Mahrattas promised their assistance But neither ally rendered Cornwallis any valuable assistance. The war was decided in three campaigns. In 1790 General Medows, though hampered as usual by the unpreparedness of Madras, captured Coimbatore, but was not sufficiently strong to undertake further offensive operations. In 1791 Cornwallis, who himself held the office of Commanderin-Chief in Bengal, arrived on the scene, marched up the Mysore plateau and captured Bangalore He arrived before Seringapatam in May, but the lack of supplies dictated a retreat In the following year he took the field with a larger and better equipped army than the English had ever possessed before in India Tippoo might well say "It is not what I see of the resources of the English that I dread, but what I do not see '' The campaign was short and decisive Within a month, Seringapatam had been invested and its redoubts captured The fall of the capital was imminent, when Tippoo submitted at discretion Half his territory was surrendered, and after the Nizam and the Mahrattas had been rewarded, Cornwallis reserved as British territory the districts of Dindigal, Banmahal, and Malabar This territorial expansion was condoned

The terms of peace, in England, because Cornwalls was known to oppose an aggressive policy, and it was at last realised

that the curtailment of an aggressive native ruler's dominions was the only certain guarantee of peace. But even the failure of this war did not convert Tippoo to a policy of peace. He entered upon intrigues with the rulei of Afghanistan to invade India and exterminate all infidels, and he invited the French Directory to co-operate in the destruction of British power in India These intrigues, however, and the renewed French peril conjured up by the Revolutionary and Napoleonic wars, belong to the Governor-Generalship of Wellesley They resulted in the final overthrow of Tippoo, and the further expansion of British power in India

by Sir John Shore a Bengal Civilian Shore had done good work in connection with the land settlement, but he

He incontestably stretched the policy of non-intervention to breaking point. When the Mahrattas attacked

Refuses to help the Nizam, Britain's ancient ally he refused assistance All the Mahratta Chiefs mustered to the campaign, and the confederation was invincible.

Nizam sustained a crushing defeat at Kurdla and submitted to most humiliating terms. But in after years the policy of supporting the Nizam was again adhered to, the Mahrattas were never able to annex Haiderabad, and there is little doubt that the continuance of that

Battle of Kurdla, imposs ble, but for British aid In 1794, the Great Madhowji

Sindhia had died, and his successor being less talented, was less likely to become a source of danger. In 1795 the Peishwa Madhu Rao II died, and with the accession of Baji Rao II began a period of confusion and jealousy which greatly weakened the Mahratta Confederation and eventually led to its overthrow by the British

Sir John Shore effected at least one sound settle ment Misgovernment had for years been rife in Oudh, and in 1787 the Governor-General, presuming

Satisfactory intervention in Oudh, 1797 upon the responsibility which rests with the protecting power, interfered in the succession. On

the death of Wazir Ali, his brother, instead of a reputed son, was offered the throne in return for a treaty restricting his powers of action. A larger British army was to be maintained in Oudh, and independent diplomatic relations were forbidden. Here then British supremacy was most definitely asserted, with great advantage to the subjects of the Nawab. When in 1798, Shore handed over his office to Lord Mornington (Marquess Wellesley), there was peace in India, but British prestige had suffered diminution in the Deccan, and the clouds of Mahratta ambition together with the continued hostility of Tippoo obscured the brightness of the political horizon.

Lord Wellesley brought to the task before him a thorough knowledge of Indian politics, a powerful intellect, and a bold unconquerable spirit Gifted like Warren Hastings with a genius to conceive and a will

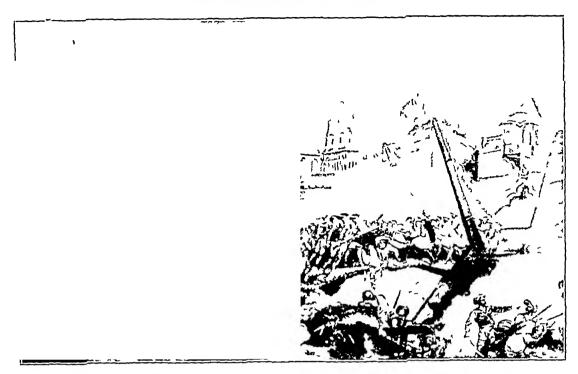
Marquis Wellesley 1708—1805 to execute, he pursued a vigorous forward policy, and in the short space of seven years by conquests

and alliances he raised the East India Company to a position of undoubted supremacy throughout India The policy of non-intervention approved of by the Directors and carried out by Shore, was clearly not only mistaken from the point of view of prestige, but dangerous by reason of French intrigues Napoleon had successfully landed in Egypt, and regarded the reduction of that valley of the Nile as merely a preliminary to an Indian expedition. At such a moment the growth of a French party in the Councils and armies of the native princes was a danger too real to be ignored. The Nizam, having been refused assistance by Sir John

Position in India 1798 Shore, had organized a French force under Raymond to guard him against the Mahratta aggres-

sion The young Sindhia, Doulat Rao, possessed in the Comte de Boigne a skilled and trusty soldier who had organized a powerful fighting force under French instructions and control Finally Tippoo had French officers in his pay, and was negotiating an alliance with the French for the purpose "of expelling the British nation from India" Faced by such manifold perils the new Governor-General acted wisely and promptly

THE CYCLOPEDIA OF INDIA



THE LAST EFFORT OF THEOR SLITAN IN DELINCE OF THE LORTERS OF SELECTION AT AN From an Engra with the Lictoria Memorial Collection



PHI STORMING OF SPRINGAPATAM

From an Engraving in the Victoria Memorial Collection

30

Asiatic Government *** The predecessors of Wellesley over neighbouring states, but none had need the influence over neighbouring states, but none had used it so more important them influence more important them influence in the influenc THE CYCLOPEDIA OF INDIA Condition of Oudh more important than that with Warren Hastings barrier 1801 In accordance with bottle as t between the British possessions in the more important than that with A subsidiry tierty still The mercuse of Butish troops now required ending the of his hingh the Naw ho in the condition of the hingh noise could certainly not mercase of subsidis which the valuab in the analysis of his hings could certainly not proximence Robill hand disordered State of his hininges could certainly not the Do ib between the Jumna and the Gordon herefore demanded by Wellesley in here of indeed by Wellesley in here of indeed indeed by Wellesley in here of indeed indeed here of indeed inde north east a n dturbulent elements whether Mahratta oi ment to take on internal administration was for the lirst Afghan, the I_{II} n_{orth} " est $unde_{l}$ Butcusting le th_{c} gum_{ℓ} δ_{udh} has i teri 'aluable ceded outwork of Janap has $Th_{\mathcal{C}}$ Bengal Un $v_{irtu}|_{iH_V}$ der a series forcedof treaties a recept this Butish force treuts, whewas main th_{ℓ_T} tained in wished it or Oudh, but not and the it was not high handed sufficiently measures of $l_{a_{r_{g_{e}}}}$ Wellesler secure t_0 "tre severecountry $th_{\mathbf{e}}$ ly criticised against inby the Directernal disortors at the time as also der or external attack by a number The Nawab of historians mnintained since his day * It n_{unman} ageable rab. must be re ble , of his mem bered, own and his ري honerer civil admithat the Na n_{1} s t_{1} a t_{10} η Wab Tizier was hope. might, le l_{essly} galĭ, rupt corjustly, have n_{d} In view of been completely de these evils a new subsi-Hew Subsidiary treaty treaty treaty forced From forces "Oriental Memoirs", upon the the distance of Outlines The Of Outlines to the treatment of the treatment prived of his RAGONATH ROW BULLAJLE PUVDIT PURDHIN PEISHWI OI THI MUHATII EVIIRL throne after Was forced

upon the
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treaties assignments As $th_{\mathbf{c}}$ of Bullar b_{ittle} disbanded and the British contingent increased land were made as a guarantee for prompt payment the subsidy which maintained the payment troops nearly forty Jears before S_{ince} day the gothat O_{udh} h_{ad} grown steadily worse, nor did it assignments of even remain

 $c_{0\eta_{-}}$

fensive position, which had been the main a strong deof its combined evistence The New Subsidiary treats with Outh and Cession of Territory 1801 of its combined main raison a core suzerain power evistence. The last resort responsible, and effective $^{in_{Vol}}_{ves}$ $_{conl_{Iol}}$ * The (juestion is well and fairly treated in Hutton's Wellesley, Chap It is not necessary therefore to

[•] O en Selections from the Wellesles despatches

effective

resort to the argument of political necessity in justifying the principle now applied. The treaty was justified by the anarchical condition of the country and it was vindicated by results. There is ample evidence that the population of Oudh henceforth, for a time at least, enjoyed a greater share of happiness and prosperity, while the same is true a fortion of the newly annexed districts. By this very annexation Oudh was rendered safe from foreign attack, and the defensive position of the Company's territories was vastly strengthened. The strategic value of the new acquisitions was conclusively shown in the next Mahratta war they would have been of equal service in the case of Afghan invasion or Sikh aggression.

In other quarters,—Surat, Tanjore and Arcot, the already existing British ascendancy was converted into direct dominion. In Tanjore and Surat disputed successions were made the occasion for intervention. In Tanjore, a

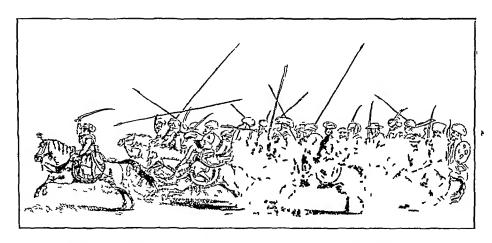
'protected state' 'he country had long groaned under

actual power The new Nawab retained his title and dignity, and the Government of Madras took over the entire administration of the State With the disappearance of the anomalous and troublesome dual system, the prosperity and the revenues of the country rapidly advanced

The complete subordination of Mysore, Haiderabad and Oudh, to British domination left the Mahiattas the only independent native power of any importance in the peninsula. This testless and turbulent people ruled by rival chieftains nominally confederate under the Peishwa, was bound sooner or later to come into

Condition of the Mahrattas conducted so ably by Warien

Hastings, had conclusively shown that the British were a power to be reckoned with, but the formidable nature of Haider Ali's attack in 1780 had rendered peace with the Mahrattas desirable at almost any price, so that the great Mahratta chiefs emerged from the war with territory unimpaired and prestige not



Advanced Guard of Mahratta Army coming to join Earl Cornwallis Near Sering apatam 26th May 1791

From Major Dirom's " Campaign in India '

misgovernment Wellesley coupled his recognition of an heir with a treaty which transferred the entire administration, civil and military, to the hands of the suzerain power The same course was adopted in Surat, where there lived a large European community on strained terms with the Nawab In the Carnatic the system in vogue since the British had in the Anglo-French wars placed Mahommed Alı on the throne had been one of dual control, and it had worked as badly as in Bengal The administration in the Nawab of Arcot's hands had been conducted of late with notorious incapacity, the reigning prince was sunk deep in debt, and to crown all, he was proved to have entered upon a treacherous correspondence with Tippoo of Action was not, however, immediately taken, but on the death of the Nawab (1801) a disputed succession of the usual kind occurred, and had to be settled by the protecting power An heir was recognised, but only on condition of sacrificing all

seriously reduced During the ensuing twenty years many changes had taken place in Maharashtra great Mahdoji Sindhia died and was succeeded by Doulat Rao A new Holkar, Jeswant Rao ruled in southern Malwa after a period of great confusion Poona also witnessed important changes Baji Rao the son of Raghoba, became Peishwa, and soon alienated many of his staunchest supporters Nana Farnavis, the shrewd minister who had dominated Mahratta politics for so long, died in 1800, whereupon the State fell into unutterable confusion Intrigues and campaigns succeeded each other with bewildering alternation more especially did Sindhia and Holkar struggle for supremacy the Peishwa being merely the sport of the contending factions Wellesley sought to entangle the Peishwa in his net of subsidiary treaties, with the object of extending the Pax Britannica throughout the Deccan Baji Rao, however, would not treat and, as we have seen, refused to

fetter his independence of action even for a share in the spoils of Mysore. But when in 1802 Holk is defeated the forces of the Peishwa and his Protector Sindha, under the very walls of Poona Bap Ruo s thoughts inclined him like Righoba a generation before to seek British and for his restitution. While a rival was being placed upon the throne at Poona, the Peishwa fied to Bassein and there concluded with the

English the funous treats of that Treny of Bassem The Company provided namci contingent of utillery certain Mahiatta districts were acceded in perpetuity for their payment. The Pershwa bound himself to enter upon no wars and make no treaties without consultation with his new allies. These were the usual provisions of the subsidius treatics of the period, they gave the British no share in the internal administration but indubitably degraded the Peisliwa to the position of a protected prince. Moreover, in view of the fact that the Peishwa was the fitular Bassem had without exaggeration been described as 'a formal abrogation of Mahratta independence The Tienty was strongly disapproved of by Lord Castlereagh, President of the Board of Control as tending to involve the British in vars and intrigues.

of which the end could not be forescen. It did lead to war but a careful study of the situation in

1802 will show that war was meritable in any case

A duel between the two great powers was in absolute certainty. The British Its results expansion could not stop where it was, and the Mahiattas above all things desired to pursue their internal fends, and their external for its All that the treaty did was to without interference provide an occasion for the outbreak of a var which was bound to come. The Peishwa was reinstated in power by British troops, and the Wihrittas began to combine against the foreigner who was so unmistakably extending his influence over the very strong hold of the Mahiatta race. Holkai though hostile hung back, and the Gaekwar remained neutral the Bhonsla and Sindhia co-operated with the purpose of forcing the Peishwa from his British alliance Arthur Wellesley, appointed political agent and military commander at Poona, required the chiefs to retire to their territories in peace They refused, and war was the result

The Bhonsla's territories in Berar were separated from those of Sindhia in the north by the dominions of Holkar in southern Malwa

Second Mahratta War 1803

But for years the young Doulat Rao Sindhia had been intriguing and campaigning in the Deccan, so that sulk as Holkar might two great chieftains, Bhonsla and Sindhia, were able from the outset to act in conjunction in the Deccan Besides his southern forces Sindhia had in his own territories a still more formidable army, that compact Europeanised force organized by de Boigne and now commanded by Perron, his successor Perron was deficient in capacity for command on a large scale, and shortly left his master's service, but the army of the north remained, and its resistance was expected to be formidable.

case of Mysore Ford Wellesley did, not let the griss provaunder his feet. No sooner was war seen to be mexitable than blows were struct at both portions of the hostile area with remarkable precision, and success.

Operations in the manager of the Compagner in Hindustan Subordinate Commanders conducted operations in Compagner of Royal Republishments and Cutted Fifth thousand

Gujer it Bundelkhand and Cuttack Tiffy thousand troops in all fought under the British flag. In the Decement the future hero of Waterloo justified his first independent command by a brilliant series of successes Capturing successively. Almediagar and Aurangabad he confronted the combined army of his focs at Assay.

on Septemb r 23rd. The battle

Brules of Assive and redescribed briefly and graphically in his own most timous despatch. It was very largely a cavilry actors and it terminated in the rout of Mahrattas with much slaughter. It was followed up two months later by the victory of Aignon gained over the Bhonsla's forces. The storming of the fortress of Gawilgarhi

determined the Bhonshi to sue for peace

Peter with Blon 12 was concluded before the end of the year. Thus was the prime mover of the war detached from the coalition and effectually crippled. Sindhar defeated in the Decean had made an armistice with Arthur Wellesley and trusted to recover his position by success in the north. But I ake was is prompt, and vigorous as his fellow-commander. Find in September he captured the strong town of Algarh where for nearly a decade Perron had lived is the uncrowned king of in extensive territory, the guardian of the great Mogul, and the paramount influence in Rapputana 7. Perron severals handicapped by native jealousies had long wished to retire, and

Operations in Hindustan had long wished to retire, and took advantage of the occasion now offered He was succeeded by Bourquin, who advanced to meet I also and to prevent his march on Delhi. The English Commander however in the rapidly decided battle of Delhi (September) dislodged the Frenchman's superior force from an almost impregnable position. The results of these operations were of vast importance. Bourquin surrendered, Sindhia's troops evacuated Delhi, and the aged Emperor Shah

Unm, who had previously written desiring British protection, was released from his thrildom to the Mahrattas. "The inhabitants of the city manifested great enthusiasm at the change of masters, and the courtly newswriters affirmed, that the Emperor not only shed tears, but had actually regained his sight in the excess of his joy." But the war was not yet over Agra was besieged and captured without much difficulty, and a stoutly contested

battle took place on October 31st, at Laswari, between Lake and the main body of Sindhia's army,— 'seventeen battalions of trained infantry with excellent artillery'' These soldiers of the north stood their ground magnificently

^{*} The Wellesley Despatches Owen, p. 401 † See Malleson's Final Struggles of the French in India. I orrest of Sepoy Generals also contains a good account of these operations.

until all their guns were lost, and the engagement was the severest in which the Company's troops had ever The effect of their defeat was decisive been engaged Sindhia's fine military organization was completely shattered he had no longer an army, and was compelled to accept peace on Wellesley's terms By the end of the year both the Bhonsla and Sindhia had signed defensive treaties, surrendering much territory and recognizing the treaty of Bassein The Nagpur Raja (Bhonsla) restored Berar to the Nizam, and handed over to the British Cuttack on the Bay of Bengal, which had interposed a barrier between the

Bengaland the Madras possessions Treattes with Bhonsla of the Company Sindhia, beand Sindhia, Dec 1803 sides his Hindustan dominions.

had possessed several towns and districts in the Deccan Of these he now ceded Broach and Ahmednagar the north he ceded all his territories in the Doab, as also those lying between the Jumna and the principalities of Jaipur and Jodhpur Delhi and the custody of the Mogul Emperor were relinquished, all French officers were dismissed from Sindhia's establishment, and all Mahratta disputes with the Nizam were to be subject to British arbitration. It will be seen that neither chief descended to the subsidiary position of the Peishwa though deprived of much power and territory they preserved their independence in almost

every particular The British Their most significant gains were of incalculable impor**fentures** tance Unbroken communication between Bengal and Madras, a defensible frontier in the north-west, a number of new possessions and therefore increased revenues. What was supremely important, the guardianship of the Mogul, still the fount of sovereignty in native eyes all these advantages were secured by the combined talents of the two great brothers Wellesley, and their intrepid

condjutor General, later Lord, Lake

But the great Governor-General was misled in his expectation of continued tranquillity Holkar was now resolved to try conclusions on his own account put to death the English officers in his service, and in the spring of 1804, the patent fact of his hostility in-

duced Wellesley to open another Third Mahratta War, Mahratta War Holkar, unlike 1804-2 Sindhia, had clung to the old Mahratta methods of warfare, "rapid cavalry movements, systematic pillaging, and sudden harassing incursions" Upon such a fee it was more difficult to inflict decisive defeats, and the event proved Holkar and his Afghan Pindari ally, Mohammed Azim Khan, to be very troublesome antagonists. In this war, as in the last, operations were conducted from two sides Lake advanced from the Jumna and General Welles-

ley, who commanded in the south, Invasion of Holkar's sent a force from Gujerat under Murray to strike at Indore northern army took the fortress of Rampura, and Holkar withdrew within his territories The rains were near at hand and Lake should either have postponed all operations until the autumn, or have pursued Holkar rapidly with a considerable force. In that event, said General Wellesley, the war would not last a fort-Lake did neither. He withdrew himself to

Hindostan, sending but a small force under Colonel Monson, that it might co-operate with Muriay and catch Holkar on both sides But Murray fell back, the full force of the Mahratta's strength was directed to the annihilation of Monson, and that

Monson s disastrous gallant officer was compelled to retreat, 1804 retreat Pressed by swarms of horsemen, in grievous want of supplies, constantly delayed by impassable rivers, it was a miracle that the small and inefficient force was not completely destroy-The retreat became more and more disorderly and it was only a routed remnant that staggered into Agra, fifty days after the retreat had commenced This was the most signal disgrace inflicted on the British arms since 1780, and its effect on the prestige and influence of the Company was instantaneous Holkar hurried northwards and laid siege to Delhi, the Raja of Bhurtpur entered into negotiations with the conqueror, and the remaining Mahratta chiefs were But the triumph was short lived preparing to rise Holkar failed to take Delhi and Murray again advanced upon his capital Holkar attempted a diversion

Holkar brought to bay Final operations of the War

Doab, by pillaging the he was met and defeated at Deeg by a strong British force under General Fraser Lake failed completely to take Bhurtpur, but his flying columns pursued and dispersed the forces of Holkar, until that chief took refuge in the Punjab, from which country he returned only to sign a treaty of peace But mean while Wellesley's regime had come to a violent end,

and the peace when concluded in 1806 was not sufficiently severe to curb the aggressive temper and the predatory instincts of Holkar The unwise generosity of Wellesley's successors will be shortly noticed, it sprang from a most untimely return to the impossible policy of non-intervention so dear to the timid minds of the Company's Directors

Wellesley had on several previous occasions been subjected to the strong censure of his nominal masters In consequence of these undeserved rebukes he had actually resigned in 1802, but the threat of resignation soon brought the Directors to

Wellesley s supersession their senses, for the well knew that no other statesman of equal ability could be found But the first Mahratta war brought a renewal of adverse criticism, and the events of 1804 produced panic and condemnation The alarm at the India House spread to the Ministers of the Crown and "Cornwallis, now sixty seven years of age, was entreated to go out once more and save India, by reversing the entire policy of the headstrong Governor-General '' Just as Wellesley's policy was on the point of being vindicated by the final overthrov of Holkar he found himself superseded, and returned to England to share the obloquy meted out to so many of the Company's greatest servants Parliament, however, refused to countenance the condemnation of his government which the Directors forcibly expressed, and he was saved at least the fate of Warren Hastings only had his forward policy of expansion and subsidiary alliances met with censure he had also displeased the Directors by the construction he placed upon the Company's position He refused to regard

it merely as a trading Company while even in the matter of trade he declined to recognise the absolute monopoly of the East India Com-His differences with the pany Further, he was rightly Directors and his principles of discontented with the insufficient administration training possessed by the Company's servants. He instituted a College in Bong il for the training of civilians, and though his views eventually found recognition in the foundation of Hailey bury, they were disavoved with contumely by the Directors and the college which he had founded with such fair auspices was ordered to be closed On the question of patronage too he was at discord with the Directors and even the Ministers at home He refused to provide lucrative posts for incompetents simply on the ground of interest and he unflinchingly pursued a policy of rewarding only industry and capacity. But time his imply vindicated the policy of the great pro Consul in all its branches India since the downfall of the Mogul Empire had been subjected to the scourge of war und anarchy for lack of a supreme His work as a pacificator and Impire builder and Impire builder power Wellesley proclaimed both in word and deed the principle of political supremacy, and he seized that Wellesley supremacy for the only power capable of wielding it He once for all shattered all hopes of a French reconquest, and he reduced the native princes to a subordinate position such as could give no scope to the intrigues of a foreign power. He re-arranged the map of India on a basis which ensured peace, by circumscribing the Mahratta chieftains, by connecting together the scattered British possessions and by guaranteeing the territories of petty states "His settlement laid out the territorial distribution of all India (excepting the Punjab and Sindh) on the general plan which was followed for the next forty years, and which survives in its main outlines to this day "* The broad results of his policy are most forcibly expressed in his own words A general bond of connection is now established between the British Government and the principal states of India, on principles which render it the interest of every state to maintain its alliance with the British Government, which preclude the inordinate aggrandizment of any one of those states by an usurpation of the rights and possessions of others, and which secures to every state the unmolested evercise of its separate authority within the limits of its established dominion

(v) GOVERNORS-GENERAL AFTER WELLESLEY COMPLETION OF DOMINION

under the general protection of the British power "†

India now obtained nearly ten years of peace, but the strict carrying out of a reactionary non-intervention policy left great problems for settlement, and laid

up great trouble for the future It would have been wiser to Cornwallis second administration, complete Wellesley's 1805 once for all, by the complete discomfiture of Holkar and his allies, and by the schemes

preservation of the illimites Wellesley had contracted Cornyallis, however was of a different opinion, and the instructions he brought from London required him to refrom from incurring fresh political liabilities, and is far as possible not to extend his action beyond the

ictual limits of the British domi-Policy of mons The subsidiary alliances non intervention vere wherever possible, to be cancelled and the protection of the minor chiefs withdrayn Cornvallis wished to restore Gwilior and even Dellii to Sindhia, and also to withdray the protection promised to the Raput princes. Such a policy would only have been construed as vealness, and could but serve to strengthen the Mahrattas for another It is perhaps fortunate that Cornwallis died

before his purpose could be carried

Sir George Barlon, 1805-7

out No provision having been George Bulow, of the Bengal Civil Service became Governor-General He was not prepared reverse the policy of Wellesley as completely as his immediate predecessor had intended but he had been freely converted to the doctrine of non-interference and did a considerable mischief during the two vears of his rule The terms of the treaty with Sindhi i were modified. Holkar when finally obliged to sulmit to Lake (1806) was granted for more lement terms than he had any right to expect and such as deluded him into attributing fe ir of himself to the British Government | Finally the Rajputs and other chiefs of the

north who had lovally refused to Fulure of his assist Holkar against the British policy were disgracefully deserted and

left to suffer the vengeance of Holkar's marauders That chieftain, well knowing that he no longer had a Wellesley to deal with, broke the terms of the treaty with the greatest effrontery and plundered as far as the Punjab His example was followed by those roving bands of mounted freebooters the Pindaris who were

steadily growing in number and Over lement treatment of who, after plunging Central India Holkar encourages fresh trouble into the most terrible anarchy poured down upon British terri-

tories, and aroused the avenging wrath of Lord Hastings But had Wellesley remained in power ten years later n few months longer none of these disastrous events would have occurred, for the complete overthrow of Holkar and his Pindari allies would have effected a lasting pacification of the country The attempt to pursue a neutral and isolated policy egregiously failed In some matters, however, the Governor-General evinced a laudable firmness The authorities in England would have liked to cancel the subsidiary treaties with the Nizam and the Peishwa Barlow, however saw the necessity of maintaining them if the British public faith was not to be entirely discredited throughout the peninsula He at least recognised the need for firmness in the area where British control had been effectively established His tenure of office was rendered memorable by the critical mutiny at Vellore, in Madras, the first sepoy mutiny of any significance In many res pects the causes of the outbreak resembled those which brought about the great mutiny half a century later Vengeance for the murder of European soldiers was

^{*} Liall Rise and Expansion etc., p 258 † Despatch to the Directors, July, 1804

promptly meted out by the execution of the ringlenders, and the mutiny was completely suppressed, though its lessons were not seriously taken to heart

In 1807 the first Earl of Minto arrived to assume the reins of office, Barlow not having sufficiently commended himself to the English ministry. Minto was a cap-

able statesman, who had held the Presidency of the Board of Control for some years, and was therefore

well grounded in Indian affairs. He probably realised to the full the mistake of a non-intervention policy, but on the whole his regime conformed to the political doctrine of the moment. Excepting some isolated cases of activity the conditions in India remained unchanged. Lawlessness and anarchy were rampant in the centre, and it could not be long before the elements of disorder should find themselves in conflict with the British power Bundelkhand was one of the disordered districts but it differed from the rest in being a British territory, having been received from the Peishwa in 1803 in exchange for the less convenient

Pacification of Bundelkhand

Deccan districts ceded by him in the Treaty of Bassein. A trouble-some series of warlike operations was conducted in this difficult country for five years and the more recalcitrant chiefs did not submit until the capture of the great hill fort Kalinjar in 1812. In one important case Lord Minto showed himself willing to protect defenceless princes against powerful Native States. The Sikhs had by the time greatly strengthened and enlarged their confederation in the Punjab, and the ambitious Maharaja Ranjit Singh was ruling at Lahore. In 1808, the Cis-Sutley Sikh princes, threatened with absorption at the hands of their

The Sikhs powerful neighbour implored British protection Minto sent a skilful envoy to Lahore and Ranjit withdrew all CisSutlej claims in return for a British promise not to interfere with him in the Punjab. Thenceforward he remained a good ally of the British Government no danger was to be apprehended from the Punjab itself, and the Sikh monarchy was a powerful barrier between India and any ambitious power in Central Asia

Much of Lord Minto's attention was devoted to strengthening the approaches to India French attack was no longer to be feared by sea Trafalgar in 1805 had shattered the maritime power of Napolcon

Further, Vauritius, the only strong French naval base in the East, wis captured by an expedition from India in 1810. But with the beginning of the nineteenth century there begin to arise apprehension of land attack, and no sooner did the Peace of Tilsit (1807) unite Napoleon and Alexander in alliance, than a Franco-Russian land expedition to

Danger of a land the French Emperor The year 1806 saw the beginning of British relations with Persia The Shah, threatened by Russia and subsequently by Russia's new ally gladly

relations with Persia The Shah, threatened by Russia and subsequently by Russia's new ally, gladly received a British envoy, and agreed upon a treaty of friendship, whereby he promised to forbid the passage of any European force through his territories,

while the British promised assistance in case his territories were invaded. The possibility of an overland attack, nad the immediate necessity of counteracting the French demonstrations was also partly responsible for the mission to Lahore, and it also brought about missions to Kabul and Sindh. The latter

Missions to Kabul and Sindh The latter was of no great value, and the former was futile enough as the

Afghan King Shah Shuja was in the throes of a civil war, and as it turned out, on the eve of expulsion from This immense display of diplomatic energy was a foretaste of 19th century politics, but the schemes were for the time dropped as events in Europe heralded the downfall of Napoleon and brought Russia once more into alliance with Great Britain It was not until 1828 that Russia made a long stride eastward and revived the anxieties of Indian But the mere attempt to extend diplomatic activity over so wide a range in Asia indicited clearly enough the consciousness of British paramountcy in India Although for the moment the consolidation of British power in India might be deferred, the beginning of the nineteenth century had witnessed the establishment of an undisputed ascendancy within the peninsula

there was no immediate danger of war with any of the still independent native princes was

evident from the voluntary departure of the Governor-General to Java in 1811 Holland was then in alliance with France, and the Dutch ships issuing from the harbours of Java and the Celebes committed constant acts of piracy upon the East India Company's fleets acts touched the Directors and Proprietors in their pockets, so that permission was given to attempt the subjugation of the Dutch East Indies A fleet of 90 sail carrying 6,000 troops negotiated the Straits of Malacca. captured all the Spice Islands, and finally after some herce fighting took Java, the most splendid monument of Dutch colonial enterprise It was restored at the peace of 1814, but some compensation was gained through the foundation of Singapore by Sir Stamford Raffles 4 years later Soon after Lord Minto had returned from Java, he learned to his surprise that he had been superseded at least a year earlier than he had The Prince Regent was anxious to confer expected

the lucrative appointment of Governor General on his favourite, Loid Moira, generally known by

his later title of the Marquess Hastings Despite the somewhat dishonourable circumstances of his nomination, Lord Hastings proved himself to be one of the ablest of Indian rulers Arriving in 1813 in his fifty-ninth year, he held office for ten years, and worthily upheld the Warren Hastings and Wellesley tradition When he left England he was at one with the Directors and Ministry in condemning a forward policy, but no sooner did he reach India than he found the policy of non-intervention to be untenable. Lord Minto had strained at the leash, which bound him, Lord Hastings broke that leash and, under pressure of circumstances followed in the footsteps of the great Wellesley by systematically extending British control over Native States

36 In the very very of Histories' accession to porter the THE CACTOPEDIA OF PODIA real nature of the Company position in Index had been poverfully is ried in Par column to the transfer of the hament the decenned reve d Scuching inquity into the Company odm in tree of of its territories with the result that company are a second declared to be a purely occurred to the return morning of radiometry considers to an analysis of the return morning to the return of the retur Company 5 trade monopoly 4 is cancelled in [1] urged to devote more attent on to the divel p and 01 1 State of the state of the state of of its terisford more enumeron to the devel programmer training and the principle of its terisford administration. Among the ether Leve, Carling 111 $e^{t_{AT_{t}}}$ That part measure of nepro 11.11 [Company via to the first on 1 $\frac{h}{h_t} = \frac{1}{p_{th}} \left(\frac{p_t}{p_t} \right) \frac{f_t}{e_t}$ required to set spirit meney for the reduction of the remarks being meney for the reduction of the result of the results of th tr + Wit natives The reposition menty on in a contract of the possibilities model in territory The tell to the te $te^{t_{kk}}$ Sovere and were that I common more fully to or it of Sovere sarry were that the comparison more may be or a and Histings a me out to Index pledred to party and perfect the idministration and to confidential prints and the bond of a collection many that the confidential area of the confidential and the confidential area. 11 1 30 30 3 measure of the bencht of evilization upon the two **>** 1 $I_{i \sim i^{t}}$ $\frac{H^{\frac{p(n)}{p(1)}}(x)}{\frac{tr_{n}h}{h}}, \frac{r}{tr_{n}h}, \frac{r}{h}, \frac{r}{tr_{n}h}, \frac{r}{h}, \frac{r$ Sugar $\frac{O(1+\frac{1}{1})^{\frac{1}{2}} \cdot U(n)^{\frac{1}{2}} \cdot U(n)}{O(1+\frac{1}{1})^{\frac{1}{2}} \cdot U(n)} \cdot \frac{U(n)}{O(1+\frac{1}{1})^{\frac{1}{2}}} \cdot \frac{U(n)}{O(1+\frac{1}{1})^{\frac$ But I ord Histings v is destined to devote h Jegress on on the Brutch to external policy and 3 are even more than to unitered. the respect to the state of the aloofness which had then the mistorn poors to the list let very more than to internal consolidation. The imistation policy of resulted man settles of agrees one which extends the death. the energies of the new Governor (nerg) (mr) has the Darkson William (mr) has the market of the new Governor (nerg) (mr) has the market of the new Governor (nerg) (mr) has the market of the new Governor (nerg) (mr) has the market of the new Governor (nerg) (mr) has the nerginal market (nerg) (nerg) (mr) (nerg) Pindiris Pathans, Mahrattas ill chillented the To the four \$1\$ to \$1\$ of \$1\$ to \$1\$ of \$1\$ and \$1\$ of \$1\$ and \$1\$ of \$1\$ of \$1\$ and \$1\$ of to Tata British supremacy and had to the Gurkhas of Vepal They were a strong multing be dealt with by torce of arms rice, who spinging from an intermixture of the H ndus The first of the to move the $\begin{array}{c} \lim_{t \to \infty} \frac{\operatorname{Vol}_{t}(t)}{\operatorname{fenned}(h)} = \lim_{t \to \infty} \frac{\operatorname{Vol}_{t}(t)}{\operatorname{Inde}_{t}} \frac{\operatorname{Vol}_{t}(t)}{\operatorname{Inde}_{t}} = \lim_{t \to \infty} \frac{\operatorname{Vol}_{t}(t)}{\operatorname{Vol}_{t}(t)} \frac{\operatorname{Vol}_{t}(t)}{\operatorname{Inde}_{t}(t)} = \lim_{t \to \infty} \frac{\operatorname{Vol}_{t}(t)}{\operatorname{Vol}_{t}(t)} \frac{\operatorname{Vol}_{t}($ of the plans with Montol in hill tribes had subdued the country I not n is Vepil some lifty verys before They had rapidly curred their time ilong the to eth ry th keyputung to til to un tertent in ri southern slopes of the Him divis to 8 kkim in the cist and to the Phillip b frontier in the west Governed $\frac{D_{i} \circ \operatorname{tr} (\operatorname{tr} (t))}{\operatorname{Crital} (t)_{i}} \circ \operatorname{cr} \left(\frac{t_{i}}{\operatorname{tr}} \right) \operatorname{dr} \left(\frac{t_{i}}{\operatorname{tr}} \right) \operatorname{dr}$ no settled tovernment in Milky Starty many may be a order to Heller and rapis municipal he ime the refuse of adventurer and restlements with the merets. With the merets of the British British.

after 1805 by a group of powerful military officers who held the king in tutelize and bossessing well eduibbed rimes upon British territory in the Itrai When in 1814 on the Luropean model the Gurthey occupied tracts belonging to Bengil Histings Was obliged to reoccupy the districts with in timed was congen to reoccupy the districts with in timen war, and then ensued the first of those numerous the interior of the interi war, and then ensued the first of those numerous expeditions into the interior of the kreat hill-ranges surrounding India in which the kreat hill-ranges engaged. The Gurkhas were been at intervals like, and their inferior numbers were amply comengaged the Guikiris were enterprising and but hike, and their inferior numbers were amply com pensated for by the strongly defensive character of hill warfar, and the their mountainous country. Inc. British troops had as yet gained no experience of hill warfare, and the males through passes all of which were commanded by miles through passes all of which were commanded by the enemy, was of no easy achievement surprising that disaster was experienced in the early stages of the war Hastings, who like Cornwallis was stages of the war Hastings, who like Cornwallis was not provided and controlled the campaign Four soldier, planned and controlled the campaign Four It is not

dominion the bands had ben swoller by the urnal of disbanded troop from the n v subsidiary states Inhip a for the max roughly be divided into two classes Pathans and Pindaris The first Mussalman of social screens to the Massalman and were to the Massalman and were to the Massalman and were They may toughty be divided Mkning mrea inemserves out for a num ma were special service to the Wilhritti chalting. The continuation of the transmitter of the transmitter of the transmitter. of special service to the minimizer emercials seed were likely of Mahratta origin and hard by the following of the start and hard by pillate as well as by highting. The chief leader of the others of the chief leader of the decider of the chief leader of the c Pathins will as my maning time court leaguer or time methods with Amir Khan whom we have already methods are trained to the court of th Pithans was Amir Khan whom we have dready wire Chital in able and enterprising leader, and different the normal we are now studying. Chital had during the period we are concerning the remains to the period we are now studying. Chitich had lent help to Sindhi t on Virious occisions, and resided commonly in the fistingers surrounding the Varbadda Valley, whence he issued forth to plunder in all direc-When Pind iris and Pathans chose to combine they could bring a force of 60 000 men into the field This monstrous organization whose sole purpose was plunder and rapine struck terior into the hearts of Panager and report struck terror into the active of the most powerful Mahratta chieftans. The Rapput princes turned to the British as the paramount Power and the natural guardian of weak states but the median mone notice of Cornualities and Rarlow the pusillanimous policy of Conwallis and Barlow

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had disavowed any such responsibility And yet it was clear enough, by precedent, by reason, and even by the claims of ultimate advantage, that on the British had fallen the duty of policing India In 1812 the Pindaris had actually raided a British district in the neighbourhood of Patna, and Lord Minto was awaiting permission to intervene in Central India when he was recalled His successor realized the danger to the full, and, even before the Nepal war, attempted to

form a subsidiary alliance with Necessity of British the Bhonsla of Nagpur, as also intervention with Bhopal and other minor princes near Bundelkhand Meanwhile Pindari irruptions extended eastwards to Orissa, and George Canning, now President of the Board, practically allowed Hastings a free hand to deal with the situation But the unrest created by the reverses in Nepal had meanwhile induced the Mahrattas to make another bid for

power A subsidiary alliance was The Mahrattas accepted by Nagpur in 1816, and threatening, 1815-16 the Gaikwar remained friendly, but the other members of the old confederacy, even the now subsidiary Peishwa, were ariimated by hostile intentions, and only waited an opportunity again to contest hegemony with the British The shifty Baji Rao at Poona was constantly engaged in anti-British intrigues, and the feeling of his court was shown in no

doubtful colours by the treache-Situation at Poons. rous murder of the Gukwar's 1815-17 pro-British minister in 1815 Mountstuart Elphinstone, a strong man and an able diplomatist, fortunately held the office of 'Resident' at Poona during these troublous years. He kept the British Government informed of the dangers ahead and prepared for all emergencies

The crisis arrived in 1817 The Bhonsla was murdered, and his successor aimed at getting rid of British control Trimbakji, the

I ourth and fin il Mahratta Peishwa's favourite, was ferment-War and Pindari ing an anti-British insurrection Campaign 1817-18 his master's auspices under Sindhia and Holkar were invited by Hastings to cooperate against the Pindaris, but they inclined inther to make a fresh bid for supremacy, and temporised until a fair opportunity should arise. But whatever the danger of Mahratta insurrections might be, the overthrow of the Pindaris could be no longer delayed Combined operations, on an extensive scale, were projected by the Governor-General An army of 120,000 men was split up into several divisions, each ordered to advance from different quarters into The dispositions were so skilful that not only were the Pindaris forced to retreat, but Sindhia, finding

Gwalior threatened on two sides, Operations abandoned his hostile intentions and accepted an honourable 1817 treaty (Oct) Amir Khan, finding the odds against him, agreed to disband his troops, and accepted the principality of Tonk Meanwhile Holkar remained inactive, but conflicts took place at Poona and Nagpur The Peishwa collected an army, sacked the Residency and Sindh a and Amir Khan attacked the British forces at Kırkee The British, though outnumbered by ten to

one, took the offensive and routed the Peishwa's 25,000 men The arrival of reinforcements made it possible to reoccupy Poons, and the Peishwa The success of these operations fled southwards was largely due to the courage, and presence of mind, of the great Mountstuart Elphinstone Nagpur

Bhonsla, Battle of Stabaldi, November 1817

similar scenes The British forces there were still smaller than at Poons, but when the Bhonsla not unexpectedly assumed hostilities, the attack of the British position at Sitabaldi was brilliantly resisted, and the Mahrattas became despondent The conflict

meanwhile witnessed somewnat

Peishwa Battle of Kirkee, November 1817

Pindaris Lyterminated

was the most brilliant in the war, and lasted eighteen hours Reinforcements soon arrived, and the Bhonsla-Ana Sahib -surrendered Holkar's fate was likewse sealed before the end of the year. He was a minor, and the Regent, a widow of the late ruler, inclined towards peace with the British But the military chiefs resolved to strike a blow for independence The Regent was murdered, and the army marched out to defy the British At Mehidpur Sir John Malcolm, no less distinguished as a soldier than as a diplo-

matist, grined a decisive victory Holkar, Battle of by means of bold offensive tac-Mehidpur, Decr 1817 tics, but not without considerable losses By January 1818, therefore, the war had resolved itself into a pursuit of the scattered bands of Pindiris, and some final operations against Baji Rao, both of which were successfully accomplished Pindaris were hunted down and wiped out, and the Mahrattas were finally and indispurably crushed Lack of union in policy and co-operation in the field had largely contributed to the overthrow of the Mahratta confederacy, but the brilliantly planned operations of the British Commander-in'-Chief were mainly

rapid downfall of a powerful group of enemies Hastings had acted with commendable promptness and decision, he commanded the largest army which had ever Conclusion of operations, taken the field in India under 1818 British colouis, and he directed

responsible for the extraordinarily

operations over a tract of country extending from Gujerat to Oudh, and from the Ganges to the Kistna

The settlement of the conquered territories was conducted on very liberal terms Sindlia was left with virtual independence His foreign

Settlement of the policy would clearly be dic-Country tated by the British Resident, and the somewhat doubtful supremacy he maintained over the Rajputs and other chiefs was negatived But he suffered no further humiliation, and it was not

until after the war of 1843 that The Treaties the State of Gwalior sank into Sindhia the subordinate position it now

The other chieftains having actually taken arms, were more severly punished Holkar accepted a subsidiary treaty and became a

Holkar feudatory prince on the still existing basis He resigned all claims in Rajputana Bhonsla Raja was dethroned, but a new ruler of

climate of Lower Burma proved deadly to the invading troops. An expedition by scarculted in the prompt capture of Rangoon, but disease and a lack of supplies prevented any advance being made up the Irrawach (1824) Meanwhile the Burmese General Bandula, a commander of considerable ability had invaded Bengar, but before achieving any success, he was recalled to deal with the situation in Pegu Having arrived before the British position at Rangoon, he was worsted in two battles, and retreated up the river (Dec 1824) During the early part of 1825, the British advance commenced, and the army penetrated as far as Prome, where a hait for the rainy season was made, whilst the Burmese were being expelled from Assam and Arakan. The conclusion of the war was

conducted with greater promptness and success During the last months of the year the enemy were repeatedly beaten advance continued and the last Burmese force having been crushed at no great distance from Ava, the king sued for peace and accepted the Arakan British terms Tenasserim and ceded, a British protectorate was recognised over Assam, Cachar and Rangpur, and a heavy indemnity was paid. The war had exhausted the India treasury the slow progress made against a ınferior fighting very power had disgraced British arms in the eyes of the natives of India, and a further duration of the campaign might brought about a widespread disaffection Certainly there had been considerable mismanagement, but ignorance of the country and a pestilential climate account

chiefly for the failure to gain a prompt and decisive victory of the type India had learned to associate with the Company's armies In

rectly of Vendabu
February 1826

the long run the war ceased to
be an object of regret for the
ceded provinces underwent a development of resources
quite beyond expectation The value of Assam
especially requires no comment to-day The new
territories also served to strengthen and secure the
Eastern frontier of the British dominions, so that
the north-western frontier was now the only doubtful one

The only other events of importance belonging to the period of Loid Amherst's rule were an incipient mutiny of sepoys at Barrackpur, and the taking of the

almost impregnable fort of Bhuitpur The mutiny need never have occurred at all if the

Num 1824 reasonable complaints of the men had been met in a reasonable

spirit but once insubordination had begun, strong measures were essential. The sharp remedy employed, at least served to secure the subordination of the sepon rimy for sixteen years.

Bhurtpur, it will be remembered, was the capital of the Jat state of that name which Lord Lake had failed to capture in 1805. A question of succession called

Taking of Bluitpur 1826 for British intervention, for Sir David Ochterlony the Governor-General's Agent in Rajputana

and Malwa, felt bound to vindicate the rightful heir,

recently recognised by the British government, and now wrongfully dispossessed by a usurper The latter defied the British power, for, in the eyes of many a native prince, the Burmese war had attested its weakness and decay Ochterlony prepared to intervene by force on his own responsibility, for which decision the fine old soldier was cruelly snubbed by the Governor-General None the less was it plain that the British prestige must be rehabilitated by emphatic action Twenty thousand men were marched to Bhurtpur, and the mighty fortress was stormed and captured in January 1826 Its fall was a convincing proof of British invincibility, and quickly arrested the growing disaffection

The next. Governor-General was Lord William Bentinck, who was entitled to some compensation for his unfair supersession as Governor of Madras at



L'ARI AMHERST, PC

the time of the Vellore Mutiny

I ord William Bentinck

1828 -35

tive capac ty and his intimate knowledge of India also marked

him out as the most suitable man for the post. His rule was characterised by benevolence, progress and peaceful development. Between the Burmese annexations and the conquest of Sindh in 1843, there was no territorial expansion of any moment,

His non intervention operations take place until the Afghan trouble of 1839 On the

whole, Bentinck pursued a policy of non-intervention He innexed the exceedingly small state of Coorg on the south of Mysore, by reason of the violence of its ruler, he took over the administration of Mysore itself for the same reason a temporary interference not an annexation be appointed a permanent resident in Jaipur that the government of that Rapput State might not fall

mto greater disorder and he added the small territory of Cachar to the British dominions by the vish of its own people. But these were isolated, and for the most part unimportant though necessary acts of interference generally he revived the obsolete policy of leaving affairs alone in the native states under British iscendancy. Thus even though misgovernment in Outh and disorder in Gwahor called for emphatication the Governor-General was content to follow the instructions from London to the letter by preserving an attitude of dignified aloofness. In so far is he amassed trouble for his successors in this manner Bentinek was no doubt deserving of censure but by his brilliant internal reforms.

Such minor mistakes

First he effected considerable economics in the cost of government and rehabilitated the finances. The perminent expenditure on the services wis cut down, and new sources of revenue such as opnim were created. Though individuals suffered by a decrease of pay and allowances, the act was justified in that a grave financial crisis—chiefly brought about by the

Burmese war-was averted

Second important judicial reforms were effected. The pressure on European judicial officers had become

so extreme, that Bentinck wisely solved the difficulty by giving a greater number of posts to natives and by creating an appeal Court at Allahabad. He was the first British ruler who realised to any extent the validity of native claims to offices other than the most subordinate

Third, he gave a considerable measure of freedom to the press, an act of liberation which I ord Amherst

had himself inaugurated. Hitherto the government surveillance of newspapers had erred on the side of despotic severity. This liberation of the press was placed on a legal basis by Bentinck's immediate successor, Sir Charles Metcalfe

Fourth, he gave a great impulse to education in accordance with the act of 1833, and by the aid of Ma-

caulay, the first legal member of the Supreme Council In deference to Macaulay's brilliant and famous Minute, it was decided that English was a superior educational instrument to oriental languages. Henceforth English became the vehicle of all higher education, and natives of India were introduced to the learning and science of the west through the medium of English teaching and literature. At the same time English became the official language of the Indian Government

The completion of British ascendancy in India now for the first time made it possible to attack with all the weight of a powerful and settled government a series of social abuses, which were in their nature barbarous, and were

were Siti, Pemale infanticide and Thigh Sation willow burning, though not sunctioned by the Hindu code, had for centuries been one of the commonest and most sucred of religious rites. Feelingally a voluntary sacrifice, in effect it vis frequently compulsory, and its abuse was such that nothing short of total prohibition could cradicate the evil. Educated native public opinion vas progressive enough to urge its abolition, and when by the Net of 1829. Sati was prohibited within British territory there was a quite unexpected lack of opposition, and the ceremony rapidly died out.

Temale infinitede vas practised most systematically in Ripputing, but there were few Hindu districts where it was unknown. The stigme attaching to the Hindu unmarried woman the difficulty of inding husbands of the right caste or castes and the expense of the wedding ceremony, all conspired to make the destruction of female babies a condonable offence in the public opinion of the country. The British Government now attempted to limit the exil of removing at least one of the causes. Wedding expenses were limited by law and the discrepancy between the

numbers of the sexes rapidly grev less

Equally detestable was the organised system of roband murder denominated Thagi (Thuggee) The Thugs were scientific garot-(/) There and Decoity n hereditary caste of turs murderers whose proceedings were conducted with a secreey and skill worthy of a better cause. The systematic suppression of Thigi was begun about 1829 by Major Sleeman, whose intimate knowledge of native life and local conditions pointed him out as the most competent man to deal with the organization Sleeman was given very full powers and within ten years Thigh had practically ceased to exist the same time strong measures were taken against Dicosts an organized brigandage which was the counterpart to Thage Decoity had been attacked by Hastings, but it still survived and even the scientific operations of Sleeman were unable to eradicate it altogether The decoits formed a hereditary caste of such numerous ramifications that nothing less than a really efficient Imperial police could finally stamp it out throughout India. In general it is true to say, that dacoity has been rare and sporadic since the middle of the 19th century

The establishment of orderly government in Central India involved the pacification of the hill tribes, and the abolition of their most barbarous practices, such as human

sacrifices In this connection it is enough to mention the extraordinary achievements of Outram—the Mutiny hero—from 1825 onwards, in taming and organizing the wildest of all these tribes—the Bhils Similar work was ettectively done in later years with such tribes as the Khonds of Orissa and the Santals of Bengal

In these several ways the condition of India was being ameliorated on every side. The abuses of the past were being eradicated, and the blessings of civilization were being conferred. Good and just government entailed material prosperity, the creation of trunk roads and a beginning in irrigation were positive pledges of improvement, and education had already begun that contact between the thought of East and West which is one of the most interesting experiments of the present age

Several of the reforms just noticed were ordered by the India Act of 1833, others reflected that wave of

India Act of 1833 Inberalism in Europe of which the Act itself was an expression These were the years of the great Reform Bill, of Catholic Emancipation and the Abolition of Slavery

Consequently when the Charter

The Charter renewed for 20 years came up for renewal in 1833, the Government at Westminster evinced a greater sympathy with the wants and aspirations of the Indian subjects of the Company than in previous years. The commercial monopoly of the Company had been broken into in 1813, in 1833 the Company was required to relinquish its trading functions altogether. Thus the Government of India was permanently freed from the necessity of considering the selfish commercial ambitions of the shareholders, an obligation which had hitherto prevented India

from being administered in a

Liberal character of purely disinterested manner In the Act fact the Company was henceforth to devote itself exclusively to the task of administering its Indian dominions, and was to look solely to the welfare of those committed to its charge the same time certain desirable changes were made in the constitution of the Supreme Council, it was given legislative authority over the whole British dominions in India a new Province (the North-West) was created to relieve the pressure on Bengal natives were to be more freely admitted to office, and a Law Commission, of which Macaulay was the most prominent member, was to be appointed, of which the ultimate outcome was a series of Codes, Civil, Criminal and Penal † The Act of 1833 is, therefore, an important landmark in the History of British India

When Lord W Bentinck resigned in 1835, a brillinit member of the Company's Civil Service Sir Charles Metcalfe, became Governor-General But the

Sir Charles Metcalfe, 1835—6 English ministry refused to break through the rule which had of late been firmly asserted of sending an English statesman to administer India

sending an English statesman to administer India Lord Auckland was chosen for the post, and Metcalfe gave place to him after a year of office. Lord Auckland was an inexperienced statesman whose period of

rule is associated with the greatest disaster in the history of British India Trusting to incorper advisors he rashly plunged into the turmoil of Afghan politics thus counting difficulties with which his lick of period and want of self-relations.

of Mghan politics thus counting difficulties with which his lack of nerve and want of self-reliance rendered him quite unfit to deal. For thirty years the Mghan kingdom founded by Ahmed Shah Abdali had been plunged in civil and foreign wars, Shah Shuja, the descendant of Ahmed having been twice driven from his throne. Dost Mohammed, descendant

of a minister of Ahmed, was virtually the ruler of Afghanistan when the events which we are about to relate took place Since the

Sikhs and Afghans beginning of the century Ranjit Singh, having consolidated a powerful Sikh monarchy with a formidable army, had seized every opportunity to extend his territories at the expense of the Afghans Taking advantage of the disordered state of that

Anarchical condition of Afghanist in

kingdom, he had successively lopped off Multan, Kashmir and Peshawar from the Afghan domi-

nions Throughout this period, Ranjit had remained on amicable terms with the British he had a

Necessity of securing friendship of Afghanistan in view of Russian advance

wholesome appreciation of their power and decided at all costs to avoid a conflict in his own lifetime. With the earliest threat

of Russian aggression in Central Asia, the desirability of maintaining 'buffer states' beyond the frontiers of India had caused Lord Minto to despatch missions as far afield as Teheran and Kabul The defensive treaty then made with Persia had, however, been abandoned twenty years later (1828), and Russia had made rapid strides across the Asiatic Continent Anglo-Indian statesmen had practically fallen back upon Afghanistan as the defensible barrier, and the wisest policy seemed to be the maintenance of friendly relations with Afganistan without arousing the enmity of that most useful

The wrong method ınternal barrier the employed by Auckland A friendly alliance theocracy with both powers would thus double-lock the gates of India against any invading power, the immediate danger from Russia was no doubt then, as since, exaggerated, but a Peisian attack on Herat 1837, encouraged by Russia lent a handle to the argument for interposition in Afghanistan But though Lord Auckland was urged from London to take decisive measures in Afghanistan, he was not justified in his method of intervention His object of establishing a friendly power in the Afghan provinces could have

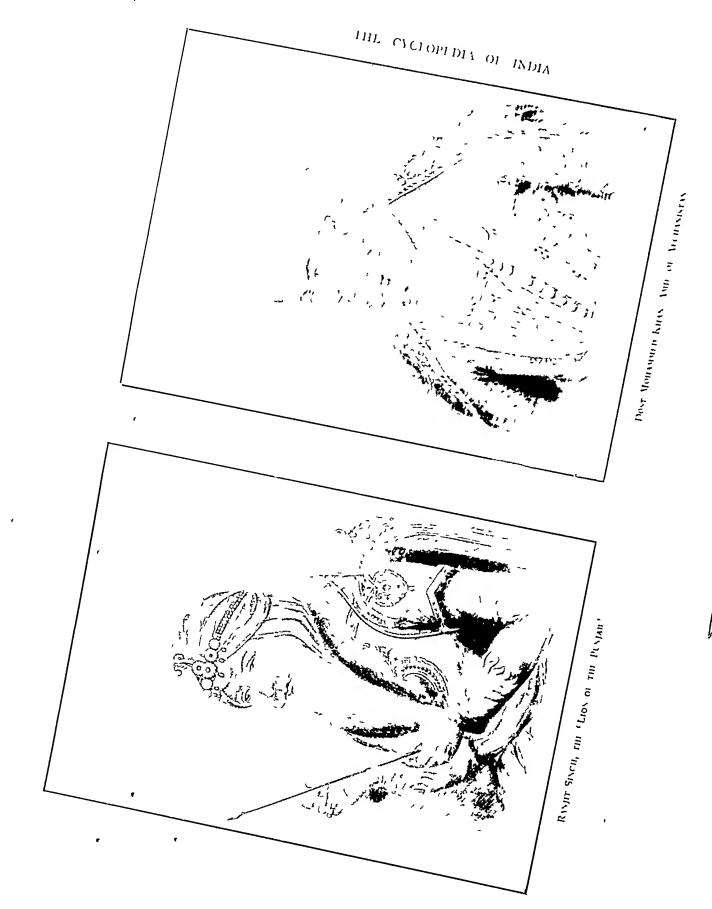
The removal of Rus o Persian aggression (1838) renders intervention less urgent been attained by securing the de facto Afghan government Attempts were indeed, made to obtain Dost Mohammed's friend-

ship, which involved an understanding between him and Ranjit Singh There is every reason to suppose that more serious diplomatic

Trist Afghan War 1838—42 that more serious diplomatic attempts would have brought about an adjustment for Ranjit Singh would have yielded Peshawar—which Dost

Mohammed vanted—for an equivalent and the Afghan Amir himself was known to prefer British to Russian But the Governor-General and his adfriendship visers were unwarrantably suspicious of Dost Moham-Without having made sufficient efforts to conciliate him, and in the complete absence of hostile action on his part they decided that Shah Shuja should be restored by British biyonets, and the friendship of Afghanistan unequivocally secured by the gratitude of the reinstated king But by September 1838 the successful defence of Herat and the retreat of the Persians had removed any danger The Shah of Persia of Russo-Persian aggression

But the shareholders were guaranteed of Parliament again t less † They did not, howev r become law until the time of Canning



was afraid of further provoking Britain, and the Crai was not prepared to act the aggressor in his own person Notwithstanding Lord and Shah Shuja restored Auckland persisted in his hairbrained scheme of imposing on king whom they did not wish The expedition started the wild and warlike Afghans a at the close of 1838 Sindh—where subsidies were unfairly levied from the Amirs—finally reaching Kandahar after great privations at the end of April 1837 There Shah Shuja was formally impregnable fort, was next taken by a feint, and in installed as king Ghazni, an August Kabul was reached Dost Mohammed fled and the English with their puppet were soon in complete occupation of the country But everything concurred to make the presence broke out in 1840 and again in the spring of 1841 of the foreigners hateful and Though Dost Mohammed had ultimately surrendered their position precarious Revolts and was now a prisoner in Calcutta, so great and so widespread was the hatred felt towards the 'infidel dogs' that a general outburst was sure to arise on the first favourable opportunity In 1841, the great cost of maintaining an army of 25,000 in Afghanistan led to the withdrawal of certain subsidies hitherto paid to the withdrawar of certain substates included to the local chiefs to keep them quiet. The country was soon in a ferment, until partial revolts and local risings culminated in universal insurrection storm burst at Kabul, and had General Elphinstone been less ineasily have quelled the disturbance competent his 5 000 troops could checked, it grew to vast proportions William Macnaghten, was murdered, and the military But being un-1 son of Dost authorities, having perpetrated every possible blunder, insisted on an unconditional surrender of the whole force. It was accordingly allowed to leaving hostoges behind. The having perpetrated every possible Envoy, Sir evacuate the country, leaving hostages behind The commanders at Ghazni, Jellalabad and Kandahar warmly repudiated the craven instructions from Kahul while the Kahul force accompanied by some Kabul, while the Kabul force, accompanied by some 10,000 camp followers started to retreat on January 6th, 1842 But the Afghans treacherously disregarded their promises of safe conduct a murderous Kandahar and Jellalabad, fire was inflicted on the fugitives in every defile and gorge, and Want A single of steer, peristien of cold and January 14th, to recount the greatest disaster ever those who were not killed by shot or steel, perished of cold and experienced by a British force in Asia The fatal news almost paralysed the Governor-General, but he was induced to despatch a relief force under the capable upheld at Jellalabad british cledit was being hobby Nott at Kandahar Ghazni fell, but the garrisons at Andahar and Jellalahad heat off every attack of General Pollock Meanwhile the British ciedit was being nobly Kandahar and Jellalabad beat off every attack of a superior force, and even assumed the offensive Kandahar was safe by March and the siege of

Jellalabad had been raised by April, a week before Pollock airived He had been hampered by the Sikhs now semi-hostile since Ranjit Singh had died in 1839 and had only dislodged the Afghans from the Khyber Pass by well-planned flanking movements Meanwhile Lord Ellenborough had arrived to super-I ord Ellenborough sede the unfortunate Auckland The folly of the Afghan Expediand Calcutt 1 but though no other alternative was tion was realised alike in London

offered than a withdrawal from the country some offered than a withdrawar from the country some attempt to vindicate British prestige was eminently desirable. When, therefore the The occupation of Kabul timid Council of the Governor-General urged immediate evacua-

wisely adopted bolder courses, and insisted on the tion, the undefeated Generals reconquest of Kabul and the release of the British prisoners—many of them women—as ? necessary preliminary to withdrawal and Pollock from Jellalabad, therefore advanced on the Capital The first retook Ghazni en ionte, the Nott from Kandahar second routed an hostile army in the field Kabul was second routed an nostite army in the near Rabul was re-occupied in September the prisoners and hostage were recovered. These events followed by an unsuch from Kabul to Agra cons disturbed triumphal march from Kabul to Agra, contr buted a little to atone for the pregnant humilations

of the war Still the disaster of 1842 was not slowly forgotten, and the Sikh War of the next few years must have ledge then gained that British arms were not invinlargely sprung from the know-Politically however a useful lesson had been

No attempt was made to interfere in Afghan-Istan for forty years, and Dost Mohammed returned to inleast Kabul, his rival having been murdered by the patriotic party in 1842

The Afghan affair was almost immediately followed by a war in Sindh For a long period the lower part of the Indus Valley had been ruled by a group of Beluchi chiefs known as the Amirs of Sindh first came into connection with the British Government in India during the rule of I ord Vinto who made a treaty with them in 1809 With the object of strengthening the

barriers of India against a French

been made with them relative to opening up the Indus for commerce In 1839, it was necessary to 1832, commercial agreements had Subsequently to employ Sindh as a base for the Afghanistan expedition The Amirs were treated rather harshly tribute was imposed and the military station of Thatta occupied The Amirs submitted under protest, but throughout the Afghanistan operations they lent assistance in the way of provisions and transport, which it would have been possible for them to withhold without any infraction of treaties In the case of a few Amirs, however, the reverses of 1842 evented manifestations of hostility, but no overt act could be

Ellenborough, rendered nervous tan, was too quick to notice and resent any hostile by recent events in Afghanisfeelings on the part of allied states He superseded

Outram, whose influence in Sindh was of a conciliatory character by Sn Charles Napier whose hectoring manner and aggressive intentions soon brought about a rupture. Napier, being invested with full military and diplomate powers menticed the Amus in the harshest mainer failed to sift the charges of disloyalty, and credulously allowed himself to be embittered against the Amus by the vollain Ah Murid, a brother to the chief Amu, and cager to obtain his brother's turb in by his downfall at the hands of the British. The consequence was that misunderstandings arose, much land was confiscated before the Amus had been heard in their defence of a new treaty had been signed and the really loval intentions of the chief. Amus and his associates were sailly misrepresented to Sn. Charles

surrendered unconditionally, and the hash treatment which provoked the war vas carried to a climax by the total union attorn of the country. It must be idmitted that the Amirs were aliens thereselve, and that Sindh soon settled down that Sindh soon settled down cheerfully under British rule to its own idvantage, still the after was a piece of political reseality, which fortunately has no parallel in the history of British India.

frouble had me my hile being brevine in Gy dior, and it seemed is if the British Government were destined never to be free from vir in some portion of its dominions. Sindhie had been left practically independent in 1818, but the progress of afrars in the State of Gy dior hardly justified the policy of non-



IIII BATTII OI MENNII, Ich 17th 1843

The humiliation of their princes provoked the troops and populace at Haiderabad to an explosion, and in February 1843 the Residency at the Capital was attacked This outbreak of course involved war but it must be remembered that the behaviour of the British Envoy had provoked the attack Namer made no secret of his desire to coerce the Amirs, to force them into opposition Battles of Meanee and thereby to have an excuse and Haiderabad for annexing the country The war itself, while it resulted from wholly unjustifiable tactics, was brilliantly successful The Beluchis fought hard, but were overpowered in the bloody battle of Meanee and subsequently in an equally desperate encounter near Haiderabad. The Amus

intervention which subsequent Governors-General pursued. In 1843, the successor of Doulat Rao died, whereupon his widow a girl of thirteen adopted as hen a child of eight. Ford Ellenborough rightly insisted on the selection of a single and competent Regent. The Rana Saheb an uncle of the late Sindhia was appointed but the hereditary Chamberlain known as 'the Dada' aspired to the post and was supported by the Rana. Both intrigued against the Rana and the British Government was compelled to support

the threatened Regent The difficulty would have been easily settled, but for the presence of a disproportionately strong and determined arms in the State. An army only less powerful than that in the

Punjab had to be reckoned with and it most naturally became the leading factor in the situation The presence of 40 000 trained Hindus with 200 cunnon was a real danger in view of its close proximity to the Pun-Jab and a possible union with the functional Sikhs whose attitude was becoming more threatening every vear

When therefore the Gwalior The Gualior army a source of danger army sided with the Rim's faction and the Regent was driven Lord Elenborough felt it necesfrom the country sary to intervene promptly ind at ill hazards to secure the establishment of a friendly government at Gualior British forces approached the frontier and a demand for the surrender of the urch-intriguer Dada was supplemented by a demand for the reduc-

tion of the army Under these Internal factions lead circumstances the Gwalior army to British intervention could not be held back, the Rani was prevented from coming to an agreement and the forces marched out to drive the English across the Chambal On December 29th both columns encountered British forces

The Gwalior campaign

were routed at the battles of Dic 1843 Maharapur ind Puniar Maharajpur the main armies met and the Mahrattas vere only beaten after a stubborn hand-to-hand The victory however was complete and resistance was paralysed. Sindha retained his domimons but lost his independence. He assumed the rank of a regular subsidiary ally with a diminished a large subsidised British Contingent and a

Resident who was empowered to Settlement of the country dictate idvice during the minorits of the prince. Gwalior had now definitely accepted the position of feudatory prince, like Holkar and the Bhonsla a position which he holds to-day months later I ord Ellenborough who was regarded as too brilliant and unsafe was recalled and a well tried soldier, Sir Henry Hardinge, took his place

Hardinge came to India with the intention of pursuing peace indattending to the Sir Henry Hardinge, social welfare of the people. But 1844-48 it was proved, that the completion of the British dominion had to precede internal reforms, and the new rulers attention was almost entirely monopolised by preparations for a contest with the Sikhs—the first Sikh war—and the settlement

who are a Hindu sect, consisting Foundation of a kingdom partly of Rajputs but chiefly in the Punjab by Rang t of Jats, derive their origin is i Singh, 1799-1839 special organization from a liberal

of the Punjab after victory had been won. The Sikhs,

teacher, Nanal who was contemporary with Babci and Humayun The religious enthusiasm of his followers was stimulated to assume a military form by the oppressions of Aurangreb and other Mussilmans in the 17th century. This transformation was virtually the work of Govind Singh, a Sikh Guiu or prophet, who lived a century and a half after Nanak The 'Khalsa,' or Sikh brotherhood in its military form, underwent many sufferings and humiliations after Govind's death. It was repeatedly crushed by the Moguls, and was brought under the Afghan dominion of Ahmed Abdali in the middle of the 18th century

Throughout this period the organization of the Khalsa was deficient for though united on occasion against external foes, the Sirdars and their retainers who composed the brotherhood were

The Sikh army not prevented by any state organization from internal rivalries and conflicts It was not until the advent of Ranjit Singh that this loose confederact was welded into a powerful state Ranut not only achieved internal union but extended the borders of his kingdom in the west and north while carefully avoiding a conflict with the great power on his eastern frontier Like many founders of dynasties Ranjit Singh was more familiar with the sword than the pen I ess

talented in administration than An irchy in the Punjab Sivaji he possessed the astu-1839-15 teness of Haider Ali and the military genius of both. He organised a powerful army on the European model, drilled by European officers, and supported by an artillery which would have done credit to the Mogul. The army, at the beginning of the war in 1845 numbered with irregular levies well over 100 000 men, but it had remained at a lower figure during the life-time of the Maharaja * The death of the giest Maharaja (1839) had ushered in a period of anarchy prolific in

The Lie t Sikli War intrigues and assessmentions 181 -6 which was only too likely to culminate in external war. In the Punjab as in Gyalior the aimy was the chief factor in the situa After the violent death of two Maharajas the Ram of Ranjit Singh acting as guardian of the infant Dhuleep, was ranged against a powerful Rapput, Hira Singh who sought to pull the strings of government Both sides appealed to the army and when the Ram triumphed over her rival the attitude of the army was still so doubtful that the only means of security seemed to be the employment of that army abroad. It was

accordingly launched upon the The Sikhs cross the British the danger of ultimate an-Sutlej Dec 184 nevation being entirely obscured by the emergency of the moment Hardinge and his Commander-in-Chief Sir Hugh (afterwards Viscount) Gough, were, however, ready to repel the unprovoked invasion The British troops were

Battle of Mudki well placed for concerted action, and two columns rapidly advanced to meet the Sikhs it Mudki There the first engagement of the war was fought a fierce and stubborn battle resulting in the dislodgement of the Sikhs Next, an idvance was made to Firozeshah, where the Sikhs in great

numbers occupied a strongly entrenched position. The battle I crozeshah, Dec 1845 which followed consists of three distinct parts at was the most sanguinary ever fought by the British in India, and though completely successful cost them 2,500 casualties. Hardinge who had tactfully placed himself under the command

of Su Hugh Gough, on this oc-Almal Jan 1866 casion felt it necessiry to assert his authority as Governor-General Gough wished to attack the enemy on the morning of December 21st,

^{*} In 1845 the Sikhs possessed 380 Mild Juns, 104 gartison guns and 308 Came) Suivels—Suid Griffin's Ranjit Singh Tulet of India Series

Hudinge, hiving tisted 5ikh powers and realising the danger of defeat, insisted on awaiting certain reinforcements from Ferozepur. The bittle consequently only commenced late in the afternoon, and dirkness soon prevented the efficient co-operation of the assulints. As it turned out the reinforcing brigide lent little assistance, and Gough's plan might have been the wiser after all. The light raced through a large part of the night, the entrenchments were partially secured and as owing to dissensions in the Sikh Cump most of their forces were withdrawn before dawn, the position was easily carried by the weighed and depleted British army in the morning. A fee hours, later left Singh with nearly 30,000 fresh men appeared to sup-

Lebruary 10th the decisive bettle of the care is fought. The Silhis had entrenched them live with arpriang slidl at Sobrang with the robustion and of the Sully Gough recolved to storm the position and after an index we artillery duel sent forward his men to carry the almost impreciable position. Over 2000 succumbed to the entrench ments were deced in three directions and the gilling defenders were driven across the river. Many per shed in the entrempt and the total to sof the Silhis

vacest mated at 8 000 together with their artiflers, and

vist munitions of var. The victory vas decisive



The 31st Reciment with Major Gineral Su Haera Smiths Diaston Exercid at the Battle of Sorkion | Lebruary 10th, 1846

port his colleagues. But finding Ferozeshih taken and ignorant how incapable its capturers were of further effort, he withdrew after a brief cumon ide, and the British Empire in India was saved by a mirricle. The battle of Ferozeshah was all but lost because of deficient tactics—a flank movement would have been less costly than a frontal attack—and by reason of the inferiority of the British artillery and their deficiency in ammunition. Though Ferozeshah by no means destroyed the Sikh army, it stemmed the Sikh invasion, the enemy now needed all their strength to defend the line of the Sutley and to hinder the British advance. A useful success over a Sikh raiding force was scored at Aliwal in January by Sir Harry Smith, and on

days. Further resistance was felt to be vain the country was speedly occupied and terms of peace arranged. The Governor-General deliberately dismissed the ilternative annexation and attempted to establish a capable native government under British supervision. By the terms of the treaty the Jalandar Doab—between the Sutley and the Beismans the only territory annexed. But in default of the full indemnity kashmir was accepted and sold to Gholab Singh of Jammu. The Sikh irms was reduced to 30,000, a Council of Regency was appointed with Henry Lawrence as Resident, and British troops were

to remain for a specified period to maintain order in

the power of the Khalsa had been shattered in sixty

the country and support the Regency Invence quickly grined the confidence of the land-ownersthe Sirdars-by his tact while the courage and genius of Edwardes Nicholson Abbott and others compelled the devotion of the hill-men. But the Sikh army felt that it had been betrayed by its leaders and would not accept its defeat as final. It was moreover worked upon by the Court party and it was clear that the slightest provocation would result in an explosion The withdrawal of Henry Lawrence's sympathetic control at the beginning of 1848, owing to ill-health was therefore much to be deplored. Sir Henry-nov Lord-Hardinge retired at the same time and his successor I ord Dalhousie was soon field by i widespread rebellion in the Punjah

The new Governor-General was the last of the East India Company 'sgreat Proconsuls and the Youngest man who had ever issumed the Government of India Born is recently as 1812 ignorant of India and Indian conditions his natural genius and his native confidence soon gave him the mastery of the whole administration and conspired to render his period of rule and epoch no less momentous than the stirring times of Chic Warren Hastings or of Dalhousic had Wellesley served under Sir Robert Peel as President of the Board of Trade a position which gave the future Indian statesman in intimate acquaintance with radway policy He came to India determined to devote himself to the welfare of the country by consolidation the development of internal communications trade and educition In spite of wars in the Punjab and in Burma he kept these perceful

ambitions ever before him, and during eight years of strenuous work he accomplished Lord Dalhousie more for India than all the 1848-56 Governors General since Wellesley had done between them. He acquired a detailed personal knowledge of all departments, and controlled all departments with the resolution of an autocrat and the wisdom of a master mind. He inspired

His character and achievenient

all with twe those who knew him with admiration and love No man more completely gained the allegimee of his subordinates, because no man by right of personal knowledege and personal work deserved it better. In the cause of India he worked

himself into the grave, but no suffering and no bereavement could overcome that resolute spirit or silence So heroic a devotion was rethe claims of duty v irded by the affection and esteem of all classes, and above all by the consciousness of noble work accomplished. It may be said of Dalhousic with more truth than of any other in the line of great pro-Consuls that Modern India is his monument "

Three fold nature of

his tast

' Lord Dilhouse did three things in India He extended its frontiers so as to bring them into inevitable though indirect contact with a great

Lurope in nation on the one side and with an ancient Islatic power on the other. He at the same time consolidated the East India Company's internal possessions

and the intervening Feudatory States, into the true beginnings of a united Indian Lipire But perhaps his most permanent chim on the gratitude of his country is that by his far-reaching schemes of rulways roads and public vorls he iningurated the great revolution which had converted the agricultural India of intiquity into the manufacturing and mercantile India of our own day Expansion of unification of territory territory and the drawing forth of maternal resources—these vere the three labours given to I ord Dalhousie to accomplish in India and in the three words conquest consolidation and development, his work may be summed up ' *

Lirst is to the expansion of territory voung Governor-General was faced on his arrival by the muttering of a storm in the Punjab The storm burst at Multan in April 1848 with the murder of

two Englishmen sent to relieve the corrupt governor Herbert Edwardes, from the Derijat of his authority marched to the rescue with 400 (1) Conquest devoted Pathans but though too

lite to sive his computriots' lives he drove back the vastly superior Sikh force and penned it up in the mighty fortiess of Multan During three months of summer heat I'dwardes held the field, while revolt was steadily spreading around him. At last there arrived a relieving column with heavy guns but it was not



Lieut Genl Sir Harry G. W. Smith Birt, e.c.n.

^{*} Hunter's Dalhousie in the Rulers of India Series But the most complete and most recent biographic is that by Sir W I ee Wainer in 2 volumes

until the approach of a Bombay Contingent in December that the siege could be finally undertaken. Mult in surjected in January 1840, but meanwhile, a practical revolt had become transformed into a national insurjection and the and Silh war had begun. The Multan outbreak had been regarded as in affect the Resident's control. That it would lead to a widespread rebellion was doubted, and the chimic of its doing so was preferred to the hazard of an immediate invasion with a small force to quench the conflagration. Military considerations as well as

policy were responsible for this decision operations

if ultimately necessary would be easier in the cold

Simply their boder to vithdres with his whole force to Rissul on the Judium. Gough now trin ported his forces across the Cherib and moving toward the Judium found the enemy entremed at Children' dish may position of no ordinary strength. The battle which followed closely resimbly the singularity struggle at Lerozeshah Creamstance preriptated an evening encagement creamstance at a the General thought required that he should deliver a front district the bright location of the bright has a district the state of the structure.

for a long time the same value of the Br tish infinity, manufacently led and inspired by the ordour of their beloved General gained



CHARCI OF H. M. 14TH LICHT DRAGOONS OF THE BATTLE OF RAMSACAR Nov. -- nd. 1848.

[From a painting by Hy Martens engry of by J. Harrs and published by K. Ackern nn. Leit.]

weather, and time would be gained for assembling a powerful conquering army. It was not until September that the Sikhs as a whole set up the

standard of revolt, and committed themselves once again to a stand-up fight against the British Lord Gough had completed his preparations by November and advanced to the Chenab, which was the line the Sikhs had resolved to dispute, just as the Sutley had been their defensive line in the first

Rising of the Khulsi Sept 1848 an indecisive action at Ramnagar, and another at Sadulapur, where the turning of the Sikh position clused Sher

the day though dukness prevented the victory from being completed. The Sikhs fell back on their position at Rassul, and little had been gained by the British at a cost of more thin 2 000 casualties. Gough was severely consured for his conduct of a battle which though nominally a victory was strategically a defeat but he had only advanced to Chillianwallah under political pressure and must not be held to account for a battle not of his own seeking and fought against tremendous odds. The power of the Sikh artillery was notorious, and then skill in creeting strong entrenchments flanked by natural defences was such that a very different resistance was to be expected from that usual in Indian warfare.

unfairly superseded by orators from I ondon, but before the humiliating Chilliann allah, arrived, he had after a month of Jan '49 cautious watching been reintorced from Multan and gained the crowning victory of Guzerat Here at least he fought on his own terms with a considerable army and sufficient guns slaughter at Guzerat was far less severe, as a preliminary artillery cannonade greatly weakened the enemy's line, and sole reliance was not placed upon desperate infantry attacks. This battle brought the var to a close and the routed Sikhs being promptly pursued An Afghan contingent surrendered on March 12 which had lent their ancient foes assistance against their more recent enemies—the British escaped over The tranquility of India the border unpunished demanded annexation and the entire was now added to the British Guzerat, I cb '40 dominions The futility of half measures had been proved in 1848 and Dalhousie felt that annexation was both expedient, necessary and Henry Invrence differed from the Governor-General as to the expediency of annuantion, as also on various questions of subsequent policy in the new province, but his talents viere too great to be gnored, and he with his brother John Annexation of the and a third Member to hold the Punjab balance, were appointed as a Governing Board. The pacification of the Punjab vas rapidly concluded, and an eminently sound idministration provided. Dalhousic himself dictated the main lines of administration, and insisted on his recommen-

verning Board. The pacification of the Punjab was rapidly concluded, and an eminently sound administration provided. Dalhous a himself dictated the main lines of administration, and insisted on his recommendations being rigidly carried out. The Sikh army was disbanded, but the best soldiers were enrolled in new British regiments while others went to swell the new military police. The Sidar's power for mischief was completely broken, while the people as a whole vere conciliated by a sound system of civil and criminal justice in place of capite and mutilation, and by the reduction of the imposts from forty-eight to half-a-dozen. The country was

Government of the parcelled out into districts adminew Province nistered by capable officials, halfc vil, half-military, roads were built, arrigation works maugurated, and public instruction undertaken the same time the confidence of the hill tribes was gained by Nicholson and his compeers a strong frontier force was created, backed by a line of posts along the border By such means as these the Punjab was rapidly converted into an integral province of the British Empire, safe, loyal and prosperous Each single step in this great achievement was either projected or scrutinized by Dalhousie, every stone of the fabric bore the impress of his genius. Had he been less capable and prescient, or had his subordinates been of inferior calibre to the I awrences, the Punjab would never have become what it so gloriously revealed itself to be in the crisis of 1857,—the saviour province of India *

Th acquisition of a north-west frontier coterminous with India's mountain barrier brought the Empire

Into direct contact with Afghanistan The follies of Lord Auckland has arrested the natural course of our relations into that country, but in 1855 a treaty was made with the Amir by which Afghanistan once more resumed her place as a friendly state and acted again as a neutral zone between India and the ever advancing As at a power of Russia

At no long interval after the conquest of the Puniab

the British Empire v is brought into contact with I hibet and the Chinese Empire by the annexation of the outlying Sikkim districts in 1850 and of I ower Burma in 1852. The Sikkim annexation v as inconsiderable in extent, though important as a rectification of frontier at was the result of a pun tive expedition demanded by the treacherous secure of

Britsh subjects The Burmese

I halt during the rains was fol-

Capture of Kangoon annexation was the consequence I rome and I can of the second Burmese var. demanded by a long series of provocation on the part of the King of Ava and his Governor in Pegu. The treats of Yendabu v hich alloyed British merchants to take up then ies dence at Rangoon had been habitually violited the British Resident had been driven out of Ava by studied insults, and no reduces could be ob-A memoral from the ill-treated European community it Ringoon brought matters to a crisis, for the moderate compensation demanded by Dalhous e was refused, and no alternative remained but war. The second war was in effective contrast to the first by reason of the adequate preparations and the rapid military movements. The army was carefully equipped against the climate and the expedition was organised on a scale sufficent to ensure decisive success. ported by sea the British troops cuptured Rangoon in April, the storming of the fortified temple being one of the most splend d achievements of modern warfare

lowed by an advance up the valley of the Irravaldi. Prome and Pegu were captured in October and November, and here the military operations ceased. The aurthor advance to Ara would have probably involved the annexation of Upper Burma to which I old Dalhousie was averse. He was content with the conquered province, which in view of the incapacity of the Burma Court to conduct negotations satisfactorily, was annexed by Poclamation. I ower Burma greatly to the advantage of the oppressed population, was thus added to the formerly ceded districts of Arakan and Lenasserim, and the British frontier was pushed eastwards after a war which had been deliberately provoked and rapidly concluded.

Annevation of I over

The second great task which Lord Dalhousie set himself was the consolidation of the Company's dominions by the annexation of those intervening Native States which had little or no claim to consideration Unification in the Peninsula was no less important than extension of frontier. In 1848, there existed a

(2) Consolidation great number of inefficient princes and shim royalties Wellesley had been the great promoter of subsidiary

^{*} It is to be noted that the Board was broken up in 1852. John I aw rence was then appointed to govern the province as Chief Commissioner

alliances and dependent native dynastics by which petty despots were guaranteed against the natural result of their misgovernment without being subject to the purifying control of the Pirimount Pover King of Oudh, for instance, in the absence of provision for British control over his internal administration, continued to misgovern and oppress his subjects who in their turn were prevented from resorting to the natural mode of reduces in the l'ist accolution and deposition because the throne of the r king was guaranteed by trenty with the British Government did the supreme power fail to realise its responsibility for the welfare of millions, while its armed support served to emancipate the rulers from the necess tv

of conciliating their subjects by Dalhousie and Nit ve tolerable admin strition and freedom from gross oppression

Since the degeneration of royal families in Inda was such a regular feature is to make continuous good government impossible, Dalhouse considered not only that actual oppression constituted a claim to annexition, but that every ligitimat opportunity for bringing a dependent state under the formal dominion of the Company should be served. The commonest case of a legitimate opportunity was the death of a ruler

The question of Adoption and the doctions of Lapse without hers other than adopted "The legal right of the sovereign power to withhold its consent to adoptions for the purpose of

transmitting a subordinate principality was icknowldged" This right had been held and sometimes asserted by the Moguls, though more often the adopted her was recognised on the payment of a large death-duty The British as the successors of the Moguls also possessed the right of refusal, though they had exercised it but seldom. When, therefore a subordinate and feudatory prince had no heirs of his body, the transmission of his principality to an adopted heir required the consent of the suzer im power. He had the full right of adoption by Hindu law, and there could be no interference with the succession of the adopted heir to the private property of his adopter It was only the question of julership which was involved The Company had hitherto deliberately avoided opportunities of increasing their dominions by the refusal of sanction in such cases ther had not sought to multiply escheats But in view of the frequent misgovernment in Native States, and the growing sentiment of responsibility towards the unfortunate subjects of oppressive princes, it had been declared by the Court of Directors in 1834 that such an indulgence (as the recognition of an adopted heir's right to succeed to a principality) should be the exception, not the rule, and should be granted as a special mark of favour and approbation" The same principle had been re-asserted more emphatically in 1841, and Lord Dalhousie made it his business to carry out these

instructions to the letter An Dalhousie's construction unusually large number of opporof the doctrine legitimate

tunities for annexation on these terms occurred during his period of office Besides the annexation of Oudh for misgovernment, there were three leading and several minor cases of annevation by 'lapse' or escheat The legitimacy of his action in

each case cannot, in view of the facts addiced above, be eilled in question at is only their expediency y luch admits of possible contradiction. But Daf-house vas firmly convinced of the expedency of substituting a just for in unjust or it least in uncertain povernment and it must be remembered that an efficient system of internal control and the truning of young chiefs by British officers whereby alone such innexit ons became innecessire the products of a later day

The leading cases of annexation by hip evere Siture Niggier in I Thansa Siture vis innexed in 1848 in the obsence of a leg time techer the adopted son of the late Raya being in un-

The court Store

I nown boy selected almost by 1017 tion to place him upon the throne of Sym the claims of the people to efficient government vere alloyed to predominate and Dalhous eneted as most authorities in India and in Ingland recommended The justice of his action v is the less open to dispute because the principality of Satura as a territor if state had been created by the Bratish and only therty years before What the Paramount Pover had given it issuredly could take iv iv in the absence of treates to the contrary. Thins is is Thans vas entitled to still less indulgence is the misrule perpe-

trited by its Rips had been of Ihan 1 18 1 more disistrous consequence The state of Ihans was a fragment of than in Situra Bundell hand ceded by the Peshwa in 1817 but the subordinate ruler had only been dignified with the title of Raja by the British themselves. The nev annexation policy was carried into effect in 1853 when the throne was vacint. Nappur which Hastings had deliberately left in native hands after the third Mahritti war, hid also sufficed from mis-government. "The list Bhonsla's sole idea regarding

the treaty by which he had been rused to the chiefship was that it secured for him the British protection ig unst the vengennes of his subjects?" This contemptible prince died in 1853 having refused to adopt in her being no legitimate successor. Dalhouse resolved to consider the interests of the people rather than sucrifice them in order to avoid imputed greed and misrepresentation. Nagpur certainly profited by the transaction but it cannot be denied that the disappearance of a great Mahratta state had for a time an unsettling effect upon the native mind \agpur wis by far the largest of the states which were escheated in Dalhousie's time, and it forms the greater part of the modern Central Provinces

Other minor annexations by labse there were and at least one state was admitted within the British dominions by its own wish. The case of Kerauli, a Rapput state near the Chambal most clearly illustrates

the current policy of the Com-The doctrine not pany with regard to native states applied to lineal sovereign states on the proposed lapse of Kerauli by failure of lineal heirs the Directors decided in favour of the adopted heir,

on the ground that Kernuli was a protected ally and not a dependent principality! It was a quasi-

sovereign state of great antiquity similar to the principalities of Ryputana not a subordinate state created by the British Government, or after defeat tolerated by that government during good behaviour. The danger to be apprehended by the native that was therefore far less widespread than the enemies of Dalhouse pretended it to be The last annexation of this period was that of Oudh and vas in no way concerned

Anrexation of O dh, with the idopt on question. The Nav ib V zier who had lately been created King of Oudh loved his position entirely to the British and his power was no more ancent than there. He had been persistently bolstered up by the Company and had been consistently loval The treaty of 1801 had greatly reduced his importance while it give him i fresh lease of ble But it d'd not guarantee good government and the misrule became annually more pern cons. The repeated varpings of successive Governors General had been scouted, and the Directors finally decided on annexation as the only practicable policy. Ford Dalhouse carried their orders into effect in 1856 and pensioned off the dethroned ling. In the sime ver the list Peshvi ded and his penson being an annuity vis not continued to his idepted son though he vis alloyed to nhert the vist private fortune of his father—that son the noto-rous Nana Sah b—regarded hanself as defrauded of his right and imply revenged himself for the sup-

posed sight in the Mutiny of Lay e of persons (i) Per han 1857. The list of shim royaltics of may be completed by the purely tailor Nivabs of the (11) Namab of Karrie mention of the Karnatic whose continuince was wisch decided against on the death of the then holder of that nov momalous dignity in 1853

One other piece of territory vis acquired during these years no ther by conquest nor by lapse Nizim of Hyderibid hid got hopelessly arrears in the payment of his subsidy for the upkeep of the British military contingent. Under these croumstances the revival of the The Perar Vogament old principle of territorial assignment seemed the only practicable alternative. Certain districts in Berir* vere therefore transferred to the Company to I quid its the debt and to ensure the regular payment of the contingent for the future. The Nirum retuined a nominal sovereignty over the ceded districts and the surplus revenue was furthfully paid back into his treasury. Subsequent disputes were terminated by the recent settlement of Lord Curzon which provides for the permanent lease of the territory to British Government

The extriordinary breidth of Lord Dilhousic's mind was evidenced by the variety of steps taken to develop the vist dominions of (3) Development the Company, now consolidated by conquest and annexation. Of late years the

cfiorts of administrators in the provinces had been more especially directed to the conclusion of the reforms sketched out by Bentinek, the abolition of inhumin rites, par-

Lubic Worl Department created

ticularly imongst the vald aboriginal tribes, and the suppression of dicoity. This and Sitt had been practically viped out before 1840. The energy of Dalhouse inaugurated a period of development whereby the nov consolidated empire should be more firmly bound together and should attain the greatest posble measure of prosperity. A good Uniform paying system postal service x is for the first time organized and the unusually low uniform rate of half in anna prescribed for internal postage A completely new service for public vorks was created and the country was covered with good roads me useful carals. Ruly as very planned on a kenerous scale and future industral prosperity of the country secured by the attraction of foreign cipital for ruly is building

Pail on eand Is graph telegraph system y high rendered introduced. valuable service at the Mutiny vis installed in spite of white ints wild beists and electrical disturbances of the air. Trade and industry was stimulated not only by these improved communications but by the abolition of vexitious tolls the improvement of harbour accommodition and the building of light-houses. Consequently both exports and imports doubled themselves even before Dalhouse quitted

Creat I ducational The great Gover the country development nor benefal v is the real creator of the nex era of moustral activity which has made India what it is to day. He also devoted hanself zerlously to the course of education and ably curried out Sir Charles Wood's famous despatch of 1854. The new policy made the verniculars the basis of popular education. English remaining the medium of instruction in all the higher grades A vast netvorl of educational institutions has under the system thus instricted been spiered over India culminating in the five

The India Act N 18 3 which very founded is early as 1857. During Lord Dilhousie's term of office the Charter of the List India Company was confirmed for the list time The Act of 185, relieved the Governor-General of the immediate idministration of Bengal by creating a Lieutenant-Governor for that proxince The political centre of gravity had inevitably shifted further west with the conquest of the Punjib and Lord Dalhouse became the first Governor-General of India, in the strict sense of the term. The military centre was likewise shifted vestvards, and the troops were concentrated in

the Punj ib and the North-West Constitutional changes Amongst other tilents Dalhousic and military policy possessed in eye for military

exigencies more far-seeing than his Commander-inchief He desired the reduction of the over grown Native army and the increase of Luropean forces measures which if duly sanctioned would have given the outbreak of 1857 a very different character

^{*} Coded to the Stram in 1819 from Niggior after the third Mahratta War The Names off and territory has been compulously respected ever since the establishment of thingsh Power

was his successor

Condition of the epov

His cainest warnings were, however, neglected But the suppress on of the muting was indisputable assisted by two creations of the great Governor-General, the irregular frontier force in the Punjah, and the newly recruited regiments of Guikhas Had Dalhouse remaned in office the India which Remement of I ord he had so nobly made would Dalhousie, 1856 have been seemed ignist the greatest shock it has ever suffered. But his indefit gible labour had worn him out and in Pebruary 1856, a

The Mutiny and Cross go einment

dying man, he left the country he had so ably served Ford Canning an old friend and college compinion,

The peace which regned it I ord Cinning's necess on to power was not of long duration. Pers in aggression brought about a viu in the end of 1856 and though Outram's expedition soon forced the Shah to

sue for peace the Person after The Person War had indirectly a prejudic alleffect upon the security of India withdrew some of the most valuable. British troops from India at a time when the country was already very poorly garrisoned. The Sikh War had resulted in a giert increase of native troops and by the close of Dalhouse's regn, the sepoys numbered 233,000 the Europeans only 45,000 Dilhouse realised the danger of such disparity, but

his protests were unheeded, and army the authorities were fulled to a sense of false security The European force such as it was, was very unequally distributed, the vist stretch of country east of Agra he ng almost ent rely garrisoned by pative troops Unfortunately temper of the supor aimy was distinctly had causes had tended to undermine the super's respect for authority and his sense of discipline. The Bengil Army which was infinitely larger and more important than the Bombay and Madras aimies, was chiefly

recruited from Rajput and Brah-

Elements of unrest mn stock in Oudh and the The disaffection in Oudh coase quent North West on Dahouse's dethronement of its king was not with out effect upon the sepoys in the British service atmosphere was further charged with religious disquietude, and the native mind was nervously apprehen sive of attacks upon its incient fifth. The growing missionary activity, the sprend of Western education. the introduction of the scientific inventions of Europe, seemed to the ignorant so many threats of worse things to come It was an age of transition, and such periods seldom fail to cause trouble to government in backward countries, where the population is at once ignorant and profoundly credulous Still, it is ilmost certain that no outbreak would have occurred had the condi-

tion of the army been satisfactory to The peasantry of India The Mutiny primarily a mulitary revolt are not given to insurjection, and they had been the chief gainers from British

ŧ

rule. The Chiefs, however much the annexation policy of Dilhousie may have threatened friem proved their loyalty when the trouble came and when every opportunity was given them to declare against the British, had they wished to Practically the only princes y ho participated in the Mut ny were dethroned thats or the relescendents who had nothing to lose by playing for high stale. Thus the palace of the puppet Delhi I imperor became a focus of Mahommed in intrigue while the vidov of the last Rija of Thinsi Nun Saleb the adopted son of the last Peshva and

the emissions of the dethroned To time extent King of Oudh Augorously stirred engine of by apitators up the soldiers and worked upon the recredulity to foment a vadespread rebell on To some extent then the previlent unrest v is being intensified by agitators who sought the rown ends and some attempt vis being made by different fictions though without duly concerted act on to create in explosion. But even then the rebellion might have nevertal en actual shape but for agrievous blunder on the part of the maltary authorities. The introduction of the greised cirtridge fired the mine which actually caused the explosion

In view of the religious disquictude adverted to above the sepon nervousness should have been respect

ed. As the sepoys did generally The cutridge locid at believe that the British aimed at the chief proximate making them outcistes* with C 111 = the purpose of their ultimate conversion to Christ unity the introduction of the

offending cirtridge should have been deferred or altogether abandoned. Lyen though the rumours about the nature of the lubricants were in the main false reasoning was impossible in a time of pante and events showed that the spring of 1857 was the least suitable time for making innovations. The first least suitable time for making innovations icts of insubordination and incendrarism (Feb. March) were followed by a period of outward calm. But the panic had too deeply demoralised the army for it to be quieted by the forcible disbandment of mutinous A wider and more violent outbreak was And meanwhile the authorities, blind to the intending cutastrophe did nothing to avert it

The storm burst at Meerut on May 10th. It was the immediate result of a severe sentence publicly carried out upon the members of an insubordinate regiment. The sepons at Meerut Vity 10, The Outbreak burst into open Mutiny released ther imprisoned comrides broke open the july, shot their officers, killed every Europe in they could by hands on, and made for Delha. On their arrival at Delhi the next morning, the city population rose the Europeans were massicred and the restoration of the Moghul Empire was proclaimed. Had the panic at Meetut been controlled by some strong hind, the mutineers would have been pursued and overthrown before they had entered Delhi As it was no heroic measures were taken, spirit of daring seemed to have deserted the race, the English regiments at

^{*}Su John Lavi nee (see hi life in the R. I. Series pp. 715) strongly held this view and denied that there was any con puter for the over throw of Birish rule. This volumble contemporing opinion is supported by all the evil nee subsequently brought together.

^{*} This fear had been fostered by the General Service I all timent Act of 1836 Hitherto the bulk of the Bengal Army had been econcrated fro a foreign service. But the annexation of Lower Burma was responsible for the new Act which cancelled the cherished privilege. To the high caste sepoys of the Bengal Army, the crossing of the sea involved loss of caste

Meerut were not allowed to move Months of suffering and anxiety were the consequence of this gigantic

error The seizure of Delhi was Meetut and Delhi the prelude to a general revolt through northern India Communications between Calcutta and Peshawar were cut Bengal and the Governor-General were isolated from the Punjab Before the middle of June nearly every native regiment from Delhi to Benares mutinied Some murdered their officers and massacred the Christian All marched off to swell the armies in the two great centres of disaffection, Delhi and Lucknow But while the extensive plains from Delhi to the borders of Bengal rapidly fell into rebel hands, the greater part of India remained untouched The

Hindu princes refrained from insurrection amongst other reasons they had little wish to further the interests of the Mogul Some, as the Cis-Sutley Sikh chieftains, dent the British valuable assistance, Haiderabad, the only great Mohammedan was restrained by the Nızam's powerful minister, Salar Jung Madras remained loyal for the Madras Army was untainted by disaffection Prompt measures were taken in Bombay to suppress hostile movements at the outset The Punjab had been rendered loyal by the strong hand and the conciliatory government of John Lawrence and a band of able associates At the outbreak of trouble the Hindustan regiments stationed in the Punjab were promptly disbanded before they could co-operate with the insurgents, and as the mutiny assumed vaster proportions over the border, the considerable

European force at Lawrence's disposal was ably

Extension of the revolt May-June

seconded by the loyal Sikhs Thus not only was the Punjab kept quiet, but it was able eventually to supply the force which dealt the first effective blow at the rebel position The only other affected area besides the northern plains

The central and friendly was Malwa, more especially the

difficult tract of country known as Bundelkhand The Maharaja of Gwalior remained loyal, though his army at length threw in its lot with the insurgents I hansi was held by the most resolute of all of the agitators, the Rani of that name, and many strongholds north of loyal Bhopal

were garrisoned by mutineers But though the area of the mutiny was restricted, the lack of preparations

Tne struggle Phase I Defence, June-August 1857

on the part of the British, the number of the insurgents and the strength of their positions, combined to make the task of suppression one of extraordinary difficulty Without entering upon a detailed account of the operations

under which the insurgents eventually succumbed it will be necessary to briefly outline the several phases of the war First came the period of greatest anxiety, that of defence, when small British garrisons, notably at Delhi and Lucknow, maintained a heroic defence against vast armies, and by their efforts

kept the rebel forces employed while preparations were being made for their relief Roughly this period lasted from June to September The rebellion reached its full strength in June, and when the British siege of Delhi was begun on June 9th, the besiegers clinging to the Ridge were practically themselves besieged by superior numbers The garrison at Lucknow where alone effective preparations had been made* were besieged in the Residency at the end of June but were able to hold their ground until relieved in September, although the rebels at one time numbered 60,000 men and were staunchly supported by the most powerful classes in Oudh At Cawnpore a handful of combatants had defended (June) an untenable position for eighteen days against the overwhelming force of the vindictive Nana Sahib, but their gallant efforts ended in



GENERAL VICHOLSON

the most miserable tragedy of the Mutiny, and their extinction left a large force of Lucl now mutineers free to direct the siege of Lucknow

The second phase of the struggle was ushered in by two important events in September Lawrence

Phase II Rescue, Sept -- Nov 1857

heroically risked everything to take Delhi, for were the Mogul capital to fall the British prestige would be rehabilitated The capture of Delhi would, he knew, be the turning

^{*} By Sir Herry Lawrence He unfortunately was killed at the very beginning of the siege

point in the Nutiny He denuded the Punjab of troops and despatched them under Nicholson to reinforce the sorely tried garrison on the Ridge Delhi was stormed and taken in the second week of September

Assult of Delhi, Sept 24

Assult of Delhi, Sept 24

A few days later Havelock, assisted by Outrum relieved Lucknov He had reached Cumpore in July too late to save the devoted garrison. Nor despite some ten victor es had he been able to advance before through the hostile country to the capital of Oudh. Even with the reinforcements brought by

Outram the releving army numbered less than

not fu short of 200,000 men*
But the blockaded Residency, reinforced by Havelock in September held out gallantly until the Commander-in-Chief fought his way through and completed the rescue. The devoted garrison was withdrawn, the untenable position in the midst of a hostile city

and the escaped mutineers from Delhi, to a number

rescue The devoted garrison was withdrawn, the untenable position in the midst of a hostile city abandoned, and the united army was now free to commence the campaign of conquest. Thus ended the second phase of the Mutan War.

Meanwhile the gar son left by Sir Colin at Campore to secure his communications had been met and arrested by a new for the Gwalior Contingent, now for the first time actively aggressive, and led by Tantia



Rt Hon Sii John Lawilner But, Ger, Keni, &c

3,000 men, too small a force to liberate the gairson, but sufficient to rescue from the imminent danger of capture. By the end of September, therefore, the torrent of rebellion had been stemmed, but the forces in the field were as yet inadequate to the great work of reconquest. Troops were meanwhile pouring in from England and Sir Colin Campbell, fresh from his victories in the Crimea, had arrived to assume supreme command. Through the early autumn months he was occupied in organizing his campaign but it was not until November ofth that he crossed the Ganges to effect the final relief of Lucknow. The rebel band investing at Lucknow had been swollen by escaped prisoners, robber tribes



Licut Cent Sit JAMES OUTLAM, CC1

Top, the ablest leader the mutineers produced Sir Colin Campbell attacked the rebel force on December 6th and routed it with great

The Conque t Dec 1857
June 1858
Shugther retired to in the fiel

slaugther Tantia Topi then retired to Kalpi The victory in the field was followed by a companying of conguest embracing

carefully concerted campaign of conquest embracing the whole disaffected area. The Commander-in-Chief invaded Oudh with considerable forces, broke the back of the resistance by the capture of Lucknow, and subjugated Rohilkhand. Sir Hugh Rose, meanwhile advanced from Bombay through Central India, took

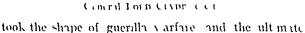
^{*} At the very lowest a third of these must have been trained soldiers

till robel position in the rear, and re-established British supremacy throughout Malwa

The reduction of Lucknow was a most form dable Skilful undertaking strategy Sir Colin Campbell's and resolute fighting however operations in the north overcame the most obstinate resistance, and the city together with the Res dency was finally occupied on March 17th The moral effect of the capture was exceed ngly great but most of the tebel gurison unfortunitely escaped to swell the forces in Robilkhand and to hold the Capture of Incknow, strongholds of Oudh forest But before the end of May a con centration of forces cleared Rohlkhand and recovered

Bareilly its capital. From this time forward resistance

miles crossed numerous large rivers took upwirds of 150 pieces of artillers, one entrenched camp two fortified cities and two fortresses strongly defended, fought sixteen actions captured then to forts and never sustained a check against the most warlike and determined enemy led by the most capable commanders then to be found in any part of India. The campaign roughly covered the first hilf of 1858. Having restored order in Holkar's dominions the General in January led his small force (only 4500 men partly sepons) to the relief of Saugor vihere a weak company of artillers and forty explains had kept the enemy at bay for seven months. But the capture of Jhans was the most remarkable achievement of the campaign. It was held by a



extraction of the ichel movement vas assured. The great campaign in Central India vis more glorous and of a far more romantic nature than Sir Colin's operations in the North Sr Hugh Rose (afterwards I ord Strathnarn) was a solder of commanding genus He captured the strongest forts and routed the rebel " H s rap d marches and irm is in rip d succession. indom table energy struck terror r Hugh ko e < into the r hearts. Through the operations in the uth most impracticable country in the overwhelm us, heat of an Ind in summer v thout effective maps a thir force decimited by sunstrole and disease he pursued his victor our course. "In five months the Central India I old Torce traversed 1 085



Moor Cor' Sit Hines Havefool Kor

force of 10,000 men stimulated to the greatest exert ons by the resolution of their masculare Ram. When Tant a Fop, arrived with a relieving force Rose attacked him a thout relinquishing the sege and routed him a an engagement where the rebel losses almost equalled the number of Brish combatants. Then on April and Jhans was stormed and the muntineers lost their chief stronghold in Central India. On Max 15th after further successes the Central India force came into touch with Sreedings.

thip flank on the Jumna and a few divis later the fortress of Kilp was you after a general getion of a most unequal character. During the engagement, the general received his lifth suntrolle and his men yere pros-

trated by hundreds. Central India had now, is wis thought, been completely reconquered, and the ever victorious army was about to be broken up when the astounding news arrived of the capture of Gwilfor by Tantia Topi and the indefitigable Ram of Jhansi. St Hugh Rose ill as he was, lost no time in marching to its recapture. The operations at Gwalior idded another chaplet to his laurely and the robel army wis ilmost annihilated a few days later by Sir Robert Napier. British ascendency was now secured between the Narbada and the Jumna the vinder ve Ram had been slam in battle and I intia Top, was a fugitive

The last phase of the Mut ny covered the period of guerilla warfare in Oudh and the hunting down of Tantia Topi in Malwa A cordon of forces griduilly

swept Oudh clear of rebels and by May 1859, the last embers of rebellion had been stamped out From first to last the revolt had occupied two years But the last twelve months were only concerned with supplementary operations the Mutiny had been practically suppressed by the early summer of 1858 For months before that the issue had ceased to be doubtful it was only during the period which preceded the fall of Delhi that the fortunes of England in India seemed to be trembling in the balance But for some such signal demonstration of power the wavering powers of India would presently have thrown in their lot with that which seemed the winning cause Lord Clyde's (Sir C Campbell) Lord rescue of the Lucknow garrison, and great victory at the close of the year over Tantia Topi, struck a staggering blow at the rebel cause his capture of Lucknow a second Lord

Strathnairn's campaign in Central India a third The honour of these splendid successes is justly due to the generals, by whose genius,

Phase IV
Stamping out the embers, June 1858—May 1859
tendence and direction of the entire series of campaigns,

by which and the mutiny was stamped out and the pacification of India secured, rested with the Governor-General

The responsibility was Lord Canning's, and to him, too, his countrymen's gratitude is due for a result which restored the endangered prestige of British arms, and settled conclusively the question of British

supremus in the I ist * His colliness under the strum of disister and in the hour of triumph was tunted by no breath of pance

or of violence. When the vork of conquest vas complete, the pacific it on of the still disturbed country could not have been in safer hands. The tragedies of 1857 toused in the British nation a lust of blood vithout parallel in her history and to Caming it fell

Here it the clamour for in licerimicat vent ince to curb the spirit of vengence so immed to invenible prefication. When the European population in Calcutte lost its

heid and London newspapers denounced all mildness as tim dity, the Governor-General ansisted on holding

the balance even and forbade the indiscriminate slaughter of rebels. Justice stern and inflexable justice v is dealt out to murderers and the accomplices of murderers but justice and expediency alife forbade the prom'scuous execution of all who had borne arms numbering as they did some hundreds of thousands of men Cinning nobly and firmly resisted the violence of popular clamour and braved the virulence of personal abuse staunchly insisting on discrimination and conciliation whereby alone the race liatred en gendered in 1857 vas prefrom becoming vented meradicable

When the peril of the Mutiny had safely passed away the lessons it had taught remained to be applied. Not only must the guilty be punished and the misled be pardoned, a completely new policy had to be inaugurated. The two main lessons to be derived from the events of 1857



LAPI CANNO, GCI CAIST

were that the sepon army which had been regarded as the main support of British rule, was its greatest danger, and that the native I c sons thught by the princes who had been treated as its gientest danger were in fact its strongest bulwark Accordingly the native army was reduced in strength and the British garrison in India streng thened, the ratio of European and sepox soldiers being fixed at one to two fixed at one to two At the same time a policy of confidence Consequent change of policy towards the native princes replaced a policy of suspicion The right of adoption

^{*} Canring by Sir H, S Cunningham Rulers of India Series,

was conceded and the continuance of all native states under British suzerginty guaranteed on condition of good government. The new regime was mangurated by the transference of the Government of India to the Crown and the extinction of the East India Company

The Mutiny had shown how I stinction of the clumsily the existing system Company worked and what delays the Crown Government inaugurated 18 8 dual government in London The position of the Company vis inoma lous and it had been almost reduced to a fiction by the Acts of 1784 1813 1833 The Act of 1858 was the natural complement of these. It was a formal rathes than a substantial change. It replaced the old constr tution by another not radically dissimilar but more effective. It placed the Government of India on the footing it now occupies. The machine has undergone certain necessary developments but it has suffered no organic change since that date. The Company with its Directors become a thing of the past, and the Par liamentary Board of Control with its President was

replaced by an advisory India Council in London presided over by a Secretary of State The new constitution and the Royal Proctamation The Governor-General became the

Vicerov of the Crown but his machinery of govern-ment was retained. The European forces of the Company were merged though not without in cipient semi-mutiny with those of the Crown and the naval force of the Company came to in end The Act of 1858 was accompanied by a Royal Proclamation reflecting the personal sentiments of the Queen breathing feelings of generosity benevolence and religious toleration. The proclamation set the seal on Canning's policy of conciliation, and nobly inaugurated the new era of pacification and prosperity

I ord Canning devoted himself assiduously to combit the disastrous effects of the Mutiny By official tours he contrived to strengthen the bonds between the government and the native princes by visc legislation

he strove to conciliate the landed Canning inaugurates classes, by financial retrenchment the new era he tided over impending bank-

ruptcy and rendered the government more able to cope with the tasks which the new era of development had in store for it. Though the Act of 1858 did not effect any startling changes in the constitution of the Indian government a Supplementary Act in 1861 (the Indian Councils Act) brought about certain necessary improvements. The Executive Council of the Viceroy was placed upon its present bisis, is i virtual cabinet with the Viceroy as its Premier duties of the different departments were distributed

among the members and the The Indian Councils cumbrous system of bringing Act, 1861 every detail of public business before the whole council was happily ab indoned I egislative Council created in 1853 was retained, simil ir institutions were established in Bombay and Madras, and the Government of India was empowered to create local legislatures in the remaining provinces whenever the occasion demanded Finally the Indian High Courts Act of the same year amalgamated the Crown Courts and the Companies Courts in the three Presi-

The existence of the old dual judicature, dency towns which dated from the days of Warren Hastings was in anomaly which did not serve the cause of simplicity and efficiency in justice. It fell to I ord Canning to bring these changes into operation and to start the

machine of government on the Retirement of Canning new lines during his last year of 18 >2 Shattered by inviety and office

toil he left India in 1862 to die before the verr vas India had killed him as it had killed his eminent predecessor. But he had accomplished much, and there are few nobler names on the roll of Anglo Indian fame thin that of Cinning

Between 1862 and 1905 ten Vicerovs have presided over the Indian Government - Throughout this period the country has enjoyed internal peace. Frontier

troubles have been frequent and Line of Development considerable wars have been 16 c -10 1 viged beyond both the North-

West and the North-List frontier, but the main tisk of Indian administrators since the Mutiny has been concerned with perceful development and civil government. It will be enough to catalogue under a fer main heads the more important efforts and achievements of Bratish rule in India during the last half century *

First is to the constitution. The relations between the Secretary of State and The poverning constithe Vicerov remained as fixed in 1855 and efforts have been made

to keep Indian interests is far as possible outside the arena of party politics. The Viceroy's Executive Council has been slightly enlarged to m order to keep pice with the growing complexity of modern govern-Tresh Ticutenant Governorships and Chief desperament Commissionerships have been ment

Changes and experiment created from time to time as the number of growth of population has demanded the sub-division of provinces. Legislative Councils have likevise increased while the composition and functions of all the Indian legislatures have been aftered to meet the more liberal tendencies of the age Thus by the Act of 1892 the number of non-official members has been increased a modified form of election has been applied to them, and the right of interpellation conceded

The elective principle v is for the first time introduced on a wide scale by Lord Ripon's Act of 1882,

which authorised the creation of The elective p inciple self-governing Municipalities and This departure was confessedly an District Boards experiment and its results have not as yet justified any further development of popular control

The relations between the Central and the Proxincial Government have undergone considerable change

^{*} For the alle of reference we append a list of the Viceroys between

¹ ord Canning and 1 ord Minto the present ruler 1862 3 I ord 1 It m 1880 4 I ord 1884 8 I ord 1880 ; I ord Kipon 1884 8 I ord Dufferin and Asa

^{186; 9} I ord (Sir J) I awrence 1869 72 I ord Mayo 1872 6 I ord Northbrook 1888 93 I ord I an downe 1801 o The second Lord I Igin 1876 80 I ord I ytton

^{1876 80} I ord I ytton 1899 1905 I ord Curzor 1 t contains six ordinary members, besides the Viceto, The Commander in Chief ranks as an extraordinary member

Decentralization in legislation was followed by decentralization in hinance. The principle of making over assignment of revenue to the Provincial governments both relieved the Central government of much responsible.

sibility and encouraged economy Relations of Central and in the Local governments Ac-Provincial Government cording to Lord Mayo's method, known as the Provincial Contract system, each provincial government receives a fixed yearly consolidated grant to enable it to defray the cost of its principal services The money is distributed at its discretion, and the savings go to swell the local treasury Previously the provinces had possessed no financial responsibility and were under no inducement to economise, as all savings lapsed to the central government. The principle inaugurated so ably by Lord Mayo in 1871 has received further developments but continues to be the basis of Indian Finance to this day It is strictly in accordance with the methods employed by the most efficient governments of the West

The foreign policy of India has been concerned of late with petty border tribes and larger Asiatic powers. Under the first category come a host of states and tribal organizations from Bhutan to Chitral and Baluchistan, under the latter may be ranked Burma, Afghanistan, China, and Russia. A war with the Wahabi fanatics in the North-West was forced

The Winds, and was not put down without considerable losses. In the North-West was forced upon the government in 1862, and was not put down without Lord Lawrence who arrived in India as these operations were being brought to a

India as these operations were being brought to a close, was compelled also to wage a troublesome mountain war against the aggressive kingdom of Bhutan The war, owing to difficulties of country and climate,

Bhutan War, 1864 was hardly glorious, but the Bhutanese were punished by the loss of a belt of territory, and

have remained quiet ever since Lord Lawrence was also invited to interfere in a civil war then raging in Afghanistan, but creditably adhered to the principles of non-intervention dictated by the experience of 1842 The Russian expansion in Central Asia continued throughout this period to cause anxiety in India, but Lord Mayo came to a friendly arrangement with the Russian government (1869), by which each power pledged itself to respect the others sphere of influence But the boundaries of these spheres were incompletely settled and a few years later the uncertainty of the situation contributed to bring about fresh trouble with Afghanistan The relations of the Amir with the Government of India had been strained since the time of Lord Lawrence, and when Sher Alı, disgusted with the British occupation of Quetta,* inclined to friendship with Russia, the Czar did not shrink from the prospect

of establishing his influence in Afghanistan The Russian menace together with a direct insult perpetrated by Sher Ali on a British Envoy,

occasioned the second Afghan War The country was rapidly occupied by British troops, Sher Alified and his son Yakub Khan was enthroned at Kabul on condition of receiving a British Resident But the settlement was as displeasing to the Afghans as that of 1839 Sir Louis Cavignari, the

3rd Afghan War 1879 8t Resident, was murdered, the Afghans broke out into rebellion,

and another war was necessary The brilliant operations of Lord Roberts were crowned with success, a new Amir Abdurrahman, was established at Kabul and due vengeance having been obtained, the British withdrew from Afghanistan in 1881. The relations with that country have been consistently friendly since that date, and the Amir has been regarded as an allied prince, pledged to * abstain from dealings with Russia or other foreign powers in return for the guarantee of his independence and the in-

tegrity of his dominions The Afghan boundaries were definitely settled by a joint Russian and English Commission in 1885 Disputes on that occasion nearly led to an Anglo-Russian war, but the danger passed, and Russia has now ceased to be a cause of acute anxiety to the Indian Government Lord Dufferin, the Viceroy whose unrivalled knowledge of diplomacy went far to adjust these difficulties, was compelled in 1885 by the inroad of organised gangs of Burmese robbers, and the insolence of the Burmese Court, to declare war upon King

Thebaw of Mandalay Little resistance was encountered by the expedition, the king was de-

throned and Upper Burma was annexed The tyranny of Thebaw and a long course of misgovernment alone would have justified such an action During the last twenty years various frontier wars have been waged with a view to punish troublesome hill tribes Of these the Chitral Expedition (1894), and the Tirah Campaign (1897), were the most important The North-West Frontier is now in a

Punitive expeditions

North-West Frontier is now in a more settled condition, and the establishment of a separate frontier province by Lord Curzon was calculated to give the central government a tighter hold over the turbulent hill country on the skirts of the Empire

Of no less importance and difficulty than the regulation of the border country was the adjustment of relations between the Supreme Government and the feudatory, or protected princes We have seen that the new policy of confidence was inaugurated by the first Vicerov of the Crown The

Government and the Princes first Viceroy of the Crown The Princes were no longer to fear the absorption of their states in British territory, the native principalities were to retain their internal independence under the protection of the British Sovereign The responsibility of suzerainty however involved some general supervision on the part of the British Government, it meant that the Crown through its representative could interfere to prevent misgovernment as the price of its continued

^{* 1876} The policy of non intervention in Baluchistan was broken through in this year. The Khan of Kelat became a Feudatory prince and territory was ceded. Quetta in the new territory became an important military outpost of the Empire.

^{*} This pledge is regarded as of such importance that, that in return for it the guirrance of integrity has been of recent years supplemented by a material subsidy. Still this does not constitute the Amir a subsidized prince in the technical sense applied to Indian feudatories.

support. What was aimed at was the loyal co-operation of the Native princes in the work of development and I ord Lawrence carried on the task begun by Canning, and Lord Mayo completed the policy of conciliation. He enunciated more clearly certain principles which have since regulated the relations of the British

Government and the protected Lord Mayos firm but The two fundamental States conciliatory policy principles were of an opposite contradictory. The first was a character but not contradictory fixed resolve to abstain from annexation the second was a firm determination to interfere when British interference became necessary to prevent misgovernment. Such interference was, if possible to take place without the dethronement of the offending ruler, but if deposition became necessary a successor was to be chosen. Where feasible the successor should be a minor, so that the state might be placed on a sound footing through the administration of British officers or a Native regency Lord Mayo also realised that much could be done to minimise the chances of misgovernment by the judicious education of young princes Private education of the sons of more feudatories by British important officers, public education of the lesser chieftains in chiefs colleges, were expedients devised by him to train the future rulers, and to inculcate a due sense of their high responsibilities * The system has answered admirably the cases of misgovernment and consequent deposition have been rare in the intervening years, and the Native States of India continue to fill an important place in the economy of the peninsula † They form an integral part of the empire, and their loyalty has been time and time again proclaimed and Had the Romans been able to retain the Native Rulers they had conquered, the history of Rome might have been far different. For personal gratitude begets a far more active loyalty than the most beneficent of governments is capable of inspiring 1

The relation of the Government to the people has also undergone great improvement since the abolition of the East India Company Much had indeed been

Government and the people

accomplished in the later days of the Company's rule The conquered provinces enjoyed a

peace they had not known for generations Protection was given to life and property The sea was cleared of pirates, the worst excesses of banditti were suppressed, and the most barbarous customs of the past were successfully broken down War was persistently wiged upon the wild beasts, and the feudatory hill tribes were partially held in check Justice was distributed with impartiality, revenue was collected upon a regular and generous system Such blessings at least were conferred by the Company upon the millions of India when once the responsibilities of Empire

had been forced upon the Directors by Puli mentary Roughly the last fifty years of the Company's rule had been marked by an earnest endeavour to benefit the governed That these efforts succeeded in conciliating the people is, however, far from certain such striking exceptions as the Punjab, the native feeling was distinctly hostile. Many of ablest administrators before 1857 despaired

Lifforts of the Crown Government to conciliate the people

of ever commending British rule to the Indian people But a great improvement is noticeable in public opinion during the

The administrators of the Crown following generation did honestly strive to carry into action the generous sentiments breathed by the Royal proclamation of 1858 The advantage of continued peace were amply utilised for the development of the country and the improvement of the several classes of the community that had been given by the Company was given now, and more A better police was inaugurated by the Act of 1861, simpler judicial procedure an increase in the

number of courts and a uniform Improved conditions code of laws, made justice more effective, while it brought it nearer to the poor man's The Government deliberately adopted policy of confidence by an extended system of education and a free press. Natives were admitted to office in greater numbers. The material prosperity of the people became a more special care of the Government, the wealth of the country increased, and a well-to-do middle class was created. The agricultural

I egislation for special classes

community, the widest class of all, obtained very special recognition, and the land has been enabled

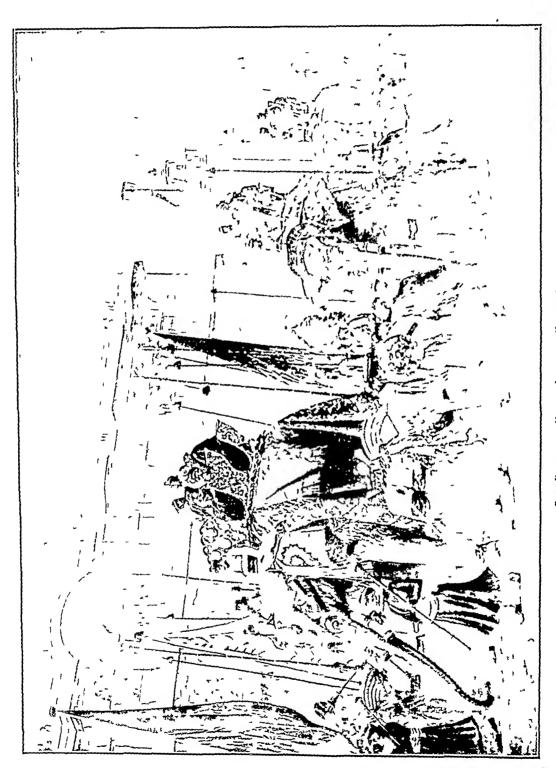
to bear the incubus of a vastly increased population While the hereditary interests of the landlord class—as in Oudh-were guaranteed, and if anything supplemented* the rights of tenants were more definitely asserted The Bengal Tenancy Act of 1885, for instance, went far to atone for the injustice inflicted on certain classes by the premature zemindari settlement of Cornwallis The various classes and communities were thus treated in a considerate and sympathetic manner, and not sacrificed in order to create a symmetrical and uniform system Lord Mayo, the most conciliatory of Viceroys, made special efforts to help the Mahommedans forward in the path of progress Proud of their past glories, conservative in temperament, they had fallen behind in the race for life under the new regime. The provision of special educational facilities for Mahommedans by Lord Mayo was the first step in that long course of policy which has aimed at making the old ruling class of India satisfied with their present position. The success of these efforts, so ably consummated by the late Viceroy, has effected a complete change in the Mahommedan attitude towards British rule

The reforming tendencies of the post-mutiny govern ments may be most conveniently summed up under two heads, moral and material amelioration. The material condition of the Indian population has made

^{*} See Hunter's Mayo in the Rulers of India Series
† They are over 600 in number and occupy 38 per cent of the whole area
of India Being however, as a rule thinly populated they only possess
about 23 per cent of the whole population

The most complete study of the present position of the Native States
in the Indian political system is to be found in Sir Lee Warner's valuable
monograph 'The Protected Princes of India" The various treaties
and engagements binding them to the British Government are given in and engagements binding them to the British Government are given in Aitchinson's Sanads, etc.

^{*} Under the Viceroyalty of Lord Lawrence His agrarian settlement practically made Oudh a loyal province.



The Pariser of Wars Aistr to Define 1875 II W. The Ising Emperor, is Prince of Wiles, entering Della in the sensitive services. (Reproduced from the painting by Verestchagin in the Victivia Memir al Collection, Cal utta)

great progress in the present era of development increased population Despite Progress and there is ample evidence to show Development that the agricultural classes are richer to-day than in the past The land is assessed at a very much lower rate than under Mahommedan or Mahratta rule More allowance is made for natural calamities, and more security is granted against human oppressors The value of

(a) Material

the land, owing to agricultural amelioration improvements and irrigation works, has been raised, and in many provinces the rent has not been raised in the same proportion The improved transport facilities brought about by the age of steam have led to the realization of great profits on agricultural produce India has become an exporting country of the first grade And when famine casts a blight upon the land the material welfare of the defenceless peasant is sedulously guarded by a paternal government, so that the loss of life is reduced to a minimum Government in fact, under the influence of civilized ideals, undertakes a wider responsibility than any Indian government of the past While the taxation per man is lower than in ancient India, more efficient protection and assistance is given in return Again, the industrial India of to-day is the outcome of British rule The great cities, the growing commercial enterprises, the extending trade and the monied classes are almost entirely the product of the last half century Riches there were under the Moguls, and valuable industries, but these were practically confined to certain privileged classes and certain special districts * Space does not suffice to prove these contentions in detail, but a little careful observation aided by statistics will be sufficient to indicate the enormous material progress made during the last half century By no fair standard of comparison can it be shown that India is growing poorer

Moral progress has been achieved by peaceful conditions, contact with the high civilization of the West

through the instrumentality of (b) Moral amelioration enlightened government and education and by legislation The warfare and the insecurity of a turbulent age are more calculated to degrade than to evalt The Pax Britannica has not only conferred material blessings, but has once again in India made possible the widespread cultivation of learning, science and the arts. Life and property being secure, mental culture and moral improvement can proceed unchecked Old Hindu ideals have received new life, and are being supplemented by the ideals of the West An educational system of vast extent under State control is rapidly removing the reproach of ignorance from the Indian people A sound secular education reaching from primary university is profoundly influencing every community in the Peninsula Technical and industrial instruction is equipping the intelligent classes to compete with commercial states on equal terms The leavening influence of education should

make it possible for India to cast off the sloth, ignorance, and narrowness, into which she had fallen, without severing herself from all that is most noble and worthy in her past Probably the history of the future will record this great moral and intellectual awakening as the most remarkable achievement of the present age Material prosperity has, in other places and at other times, been restored to a nation by foreign rule, but intellectual life on the same scale, never Moral progress has also been furthered by the instrumentality of legislation and the efforts of enlightened native opinion Barbarous practices such as satti and infanticide had been almost extirpated by the Company's administrators, but there still remained in the Hindu social system certain evils which had crept in during the deterioration of the early Aryan civilization * Such were infant marriage and the prohibition of widow re-marriage. The Age of Consent Act of 1890 forbade the consummation of a marriage in the case of a girl before the age of twelve Amongst the people social reformers and associations have for years been fighting for the cause of widows, and in the direction of the marriage of child widows, at least much has been accomplished Powerful organisation such as the Brahma Samaj aim at social regeneration no less than at the purification of religion A return to the simpler canons of primitive Hinduism will, amongst other resultant advantages, consciously assist the tendencies of the time in loosening the grip of caste upon the people. The caste system is already staggering under the attacks of modern civilization, but it must be more completely overthrown if India is to compete on equal terms with other Nations

Zeal for peaceful progress has not left the Government of India blind to the necessity of maintaining adequate preparations for war An armed force of 225,000 men is a guarantee of

Defensive measures internal peace and provides im munity from invasion by land The British navy is at the disposal of all parts of the Empire and would hasten to the defence of India in the perhaps unlikely event of an attack by sea The powerful police force is an additional protection against internal commotion Since the mutiny the principle of maintaining one British soldier to two sepoys has been fairly constantly observed, and the artillery has been almost entirely concentrated in British hands The ranks of the native army have been very largely filled with Sikhs, who are not unwilling to face garrison duty across the seas Native troops have been gratified as far as possible by their employment abroad, and quite recently distinguished themselves in China. The Indian army has been of late brought up to the highest condition of efficiency, and in time of war it would be assisted by the select bodies of Imperial Service troops supplied by the lovalty of the native princes Military policy has recently aimed at making India self-supporting with regard to arms and munitions of war, a policy not only sound in itself, but by reason of the employment of native labour productive of advantage to India on the economic side

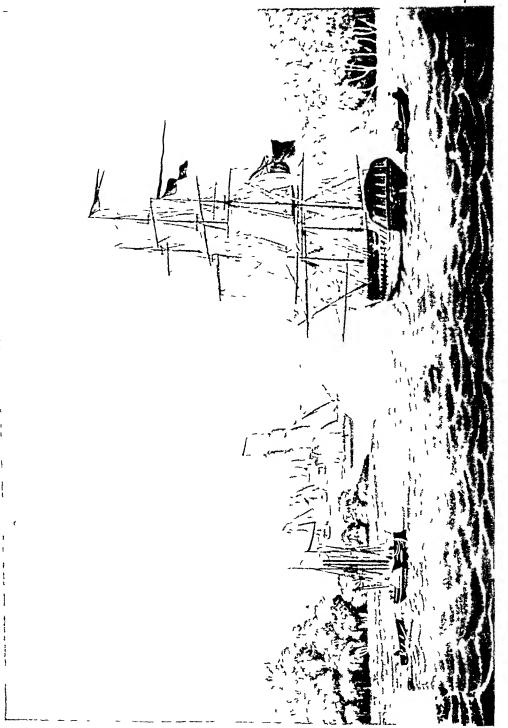
^{*}E a, Agra, Bengal Gujerat The better distribution of wealth and the higher standard of living to day are facts capable of ample proof See Flunter's 'India of the Queen, especially the essay —England's work ribal ai

^{*} These movements are admirably set forth in Dr Bo e's History of Hindu Civilization during British Rulé

A territory the size of Europe without Russia is thus intelligently governed and efficiently protected by the united brain and strength of England and of India A vast congeries of conflicting Outlook for the luture nationalities is kept at perce and helped along the path of progress under the The highly complex ægis of the British Empire and minutely organized government of India derives its stimulus from the people who have raised it out of chaos The continuance of British control is a vital necessity to the peace and well-being of the countless races and states which compose the Indian Empire Should these different races be ever fused into a single nationality the predominance of England might cease to be essential Meanwhile the partnership is a mutual gain, and the best interests of India are fostered by loyalty to the British Crown It is no light privilege to be an integral part of the greatest Empire in history and that the tie is no shadow one has been forcibly demonstrated during the late visit of India's future Emperor. Half is century of unparalleled progress under Crown Government has brought India to the threshold of even greater achievements. The all pervading activity of the late Viceroy has briced up the machine of Government for fresh efforts. But the real of authority must be seconded even more earnestly by private enterprise and popular endeavour. If Government and people work hand in hand more tolerantly and sympathetically it is not rash to suppose that the twentieth century will witness a period of extended commercial enterprise and a renewal of intellectual life such as shall make India a still more powerful factor in the state system of the modern world.

* His present Majesty is the first British I mperor of India The title of I mpress was assumed by Queen Victoria in 1877





The Hitbour of Port Cornwills—ISLAND OF GREAT ANDAMAN—with the Fleet getting under weigh for RANGOON (First Burmese Wit) I rom in engraving

The History of Burma.

PRE-HISTORIC BURMA

THE era now generally in use among the Burmese began in the year 639 A D and Mr Parker in his book. "Burma, with special reference to her relations with China," thus sums up all that is known of Burmese history up to the establishment of the existing Burmese era - 'During this period Buddhism introduced from some place or other, more or less successfully struggled with the previously existing superstition, character uncertain. But, though we have little or no trust worthy historical information as to what happened in Burma previous to the seventh century of the Christian era, it is quite possible to reconstruct in rough outline what the earlier history must have been. For one thing it is fairly certain that all the races now inhabiting Burma were originally immigrants from what we now know as Western China, from Tibet and from the North-Eastern portion of India It is possible to trace the connection of the numerous languages and dialects they now speak with the languages of the countries from which they sprung arms tale clearly enough Their languages have not as yet been sufficiently studied by competent scholars to yield full information in every case as to the exact source from which every obscure tribe of to day originally came, but it is practically certain that they were all immigrants

Whether they ousted an aboriginal race is uncertain but there is at least some probability in the theory that the original inhabitants of the country were Negritos This race is still found in the Andaman Islands quite near to Burma It is also found in part of the Malay Peninsula, in the Philippines, Papua and some of the neighbouring islands The probability is that in the remote past it was much more numerous than it is now, and the remains of the race still to be found in the Andaman Islands may well be the descendants of Negritos who escaped from Burma long before the Christian era and in the seclusion of these small islands have survived to the present day. Against this theory there is the fact that no tradition of a conflict with an inferior aboriginal race has been preserved among any of the immigrants But, although the newcomers were far from civilised as we understand civilisation to-day, they were immeasurably superior to the wretched Negritos, so the latter could make no resistance of a character likely to survive in legend They would rather hide in the dense forests until they died or were driven out, and to the first immigrants with whom they came in contact they would be merely an annoyance, scarcely so formidable a foe as the tigers or other wild beasts When more than one stream of immigrants had come, they had plenty more serious fighting with each other, so any previous conflicts with the Negritos, if there had been any, would be speedily forgotten

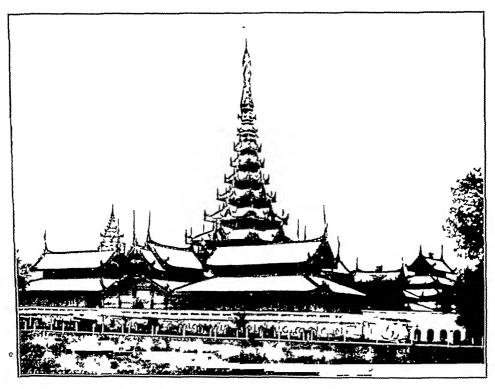
The immigrants came from different sources, though they were all of Mongolian stock, and they came too, no doubt, often at wide intervals of time. Their fortunes too were very various. Some got down into the fertile plains and developed into powerful kingdoms, others, shut up in some small valley, or some portion of a mountain range, remained little better than mountain clans.

This difference in their fortunes led also to great differences in their civilisation Secluded communities are more apt to fall back than to progress in civilisation. The savinge Was are a conspicuous instance of this According to tradition they at one time held all the country as far south even as Chiengmai and were not more savage than their neigh-Now they are mainly confined to a block of territory on the north-eastern frontier extending for about one hundred miles along the Salween and about half that distance inland to the water shed between that river and the Mekong Within this area there are very few people who are not Was Beyond it there are a few isolated Wa villages, and it is only on the fringes of this block that other races, chiefly Shans and La'hu, venture to settle. It must be admitted that the Was are not desirable neighbours The Chinese, Burmese, Shans and other races living near, all believe them to be cannibals, but this accusation is untrue

Every Wn village however, has its collection of skulls, and at least one new one must be added every year, as otherwise, there would be a failure of the crops, the villagers believe The greater the distance from which the skull is brought the more potent it is in agricultural results. Naturally the Wa never misses a good opportunity of adding to the accumulation of skulls in his village, but in March and April when the time is approaching for the sowing of the new crop, parties go out from each village head hunting As Sir George Scott puts it in the *Upper Burma Gazetteer*, 'legitimate head cutting opens in March and lasts through April' In these months journeying is exciting in the hills, as any travellers are fair game to the head hunters. The neighbouring races, however, divide the Was into wild Was and tame or domesticated Was. The former are head hunters, refuse to have any dealings of a more neighbourly kind than head hunting with other races and regard clothes as superfluous. They are also mere spirit worshippers The latter have given up head hunting, appear at markets partially, sometimes even decently clad and have some tincture nt least of Buddhism Of course, the division between wild and tame Wa is very indefinite, many of the villages being in a state of transition between the two

Isolation in the case of a small community tended not only to the loss of such civilisation as they had previously possessed, but also to increase the difficulties of language. The intricate mountain ranges of the country bounding the Irrawaddy valley served to seclude settlements, and the inhabitants of a remote valley often so changed their dialects in two or three generations that they became unintelligible to their nearest neighbours. Hence the multiplication of dialects so conspicuous in all the hilly parts of the country. Moreover, until quite recent times slaveraiding was universal all over Indo-China, at one time on a huge scale, latterly more in the fashion of the rape of the Sabine women. Dr Richardson, who visited Chiengmai (Zimme) in 1836 says the Chief

of wealth, there are no permanent buildings except the interminable useless bricked-up Buddhist pugodas no royal tombs, no municipal traditions no really ancient inscriptions, and what old religious inscriptions there are, seem generally to be utterly devoid of historical interest—in short the country is just as much a barren waste, from a cyclised and civilising point of view, as the steppes of Mongolia generation after generation of its aimless people have gone and come in the same listless way as the Tartar nomads for all the world like so many butterflies or sheep." There is an element of truth in this, but it is unfur all the same. Accumulation of wealth there can scarcely be until a fairly stable government has been established. Even in historical times the history of



THE PALACE, MANDALAY

boasted that 27 out of his 28 wives had all been taken prisoners by himself. Most of the women thus captured or at least, the most prepossessing ones went to the Chief, no doubt, but the captains and soldiers would secure some also. The male prisoners were often killed but sometimes they were kept to till the ground, and so helped, when they married, in the transformation of the people. Altogether it has produced a fine tangle and the comparison of languages, of legends and of traditions which alone can evolve some order out of the existing chaos has scarcely been begun as yet. Few men in Burma have the requisite lessure and scholarship to attempt it

Mr Parker condemns the races of Burma in the following passage —"There is no accumulation

Burma is very much a succession of ruthless wars, and in pre-historic times the same conditions must have prevailed in an even greater degree. The Was, for instance, we may be sure, were not driven back into the small area they now occupy without fierce fighting, continued, probably, through several generations. The same was no doubt the case with many of the other races and tribes inhabiting the country. Constant war rapine and slaughter are not conducive to the advance of civilisation, and the marvel is not that the races which had come out on the top in historical times should have evolved so little civilisation, but that they should have made the progress they had Burmese and Talaings fought hercely with each other to the last now one and then the

other getting the best of it. Yet in the intervals between these ruthless wars, they built pagodas, some of which have lasted for centuries, and in the monasteries, which were to be found in every village almost, education was brought within reach of every lad who cared to take it An eastern race which has had, for ten centuries or more, something like universal education for the males at least, is not to be summarily condemned as having conspicuously failed to advance in civilisation. A Chinese description of Burma is given in the chapter in "Southern Barbarians" in the T'ang history. A great deal of what is there stated might have been written in the nineteenth century instead of in the ninth It describes the numerous monasteries built in a similar style to the King's palace, and adds, "The people cut their hair at seven years of age and enter a monastery If at the age of twenty they have not grasped the doctrine, they become lay people again 'That is very much what is done to this day. In this respect Burma may claim to be ahead of every other country in the world, as it has had free and universal education offered to its sons for over a thousand years

Such civilisation as the races of Burma attained to is due, in a very large measure at least, to the introduction of Buddhism However much they may have failed to "grasp the doctrine" fully, and however much they may have continued to mix up the old spirit worship with it, Buddhism at least set up higher ideals of thought and of right living among them. It widened their minds and enlarged their sympathies It did not, any more than Christianity has done, stop wars or very greatly reduce their ruthlessness, but, to some extent at least, it did mitigate the sufferings of the poor and the oppressed The monasteries were in some measure places of refuge as well as schools and the most ruthless kings could not altogether ignore the voice of the monks as these were highly venerated by the people When and how Buddhism was introduced into Burma Buddhaghosa is the reputed apostle is very uncertain of Buddhism to Burma, and Talaing historians claim him to be their fellow-countryman, stating that he crossed over to Ceylon in 402 A D and thence brought back to Thaton a complete set of the Tipitaka with its commentaries But this does not tally with the references to Buddhaghosa in the Sinhalese records, and there are other reasons for not believing it from such reasons for disbelief as scholars may find in old writings, it is scarcely_likely that a Talaing would go to Ceylon in 402 A D in search, apparently, of Buddhist scriptures, unless the Talaings were already interested in Buddhism Almost from the first there was an active propaganda carried out by the Buddhist converts Asoka's edicts inscribed on rocks and stone pillars, at places widely apart, prove that by the middle of the third century before Christ Buddhism was widely spread throughout India and even in adjacent countries It is very improbable that its introduction into Burma was delayed until the fifth century after Christ It probably was well established among the leading races by that time, but it is possible that the Talaing story about Buddhaghosa refers to an actual mission to Ceylon in search of more complete knowledge The first missionaries may have come to Burma

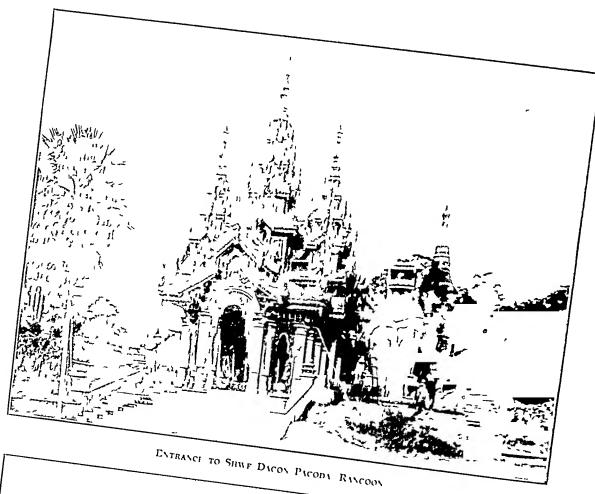
in Asoka's time or even before it. We cannot fix the date nor do we know anything of their early successes and failures The Talaings, living on the sea-coast, almost certainly got their knowledge of Buddhism from Southern India and Ceylon The Burmese, living further north and inland, may have got their knowledge from the Talaings, though they are unwilling to admit any such indebtedness to a people with whom they were constantly at war It is possible that they obtained their knowledge from missionaries who travelled overland from India and so reached the Burmese without travelling through Talaing country, or the knowledge may have come from China The whole subject, however, is very obscure Mr Taw Sein Ko, the Superintendent of the \rchæological Survey of Burma who has had better opportunities than most to study the question, concludes in the following words an article he contributed to a Buddhist magazine

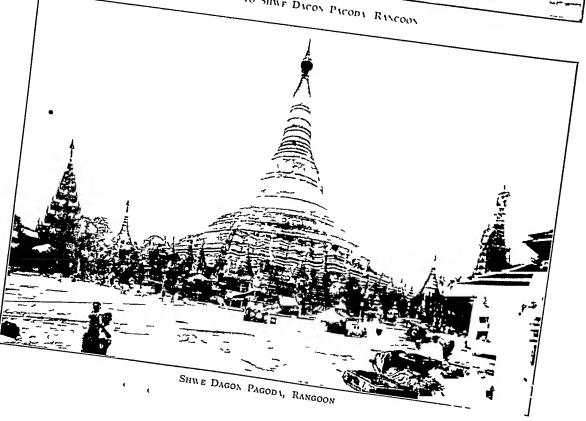
' I history of Buddhism in Burma still remains to be The influences exerted by China, Tibet, Nipal Mrgadha, Assam, Manipur and Cambodia on the one hand, have to be distinguished from those exerted by Southern India and Ceylon on the other The intermixture of the Bon religion with the Tantric doctrines and Naga-worship the evolution of Shamanism or Natworship, and the part played by Brahmanism Saivaism, Vaishnavaism, and Jamaism in the religious development of Burma have still to be described. Above all, the Talaing literature, which forms the connecting link between Ceylon and Burma Proper, still remains to be At present, there is a lamentable dearth of scholars in Burma and Burmese history and Burmese literature, and Burmese antiquities are fields in which the labourers are exceedingly few, though the harvest should be plentiful and rich?

From the dawn of history to the time of Alompra

At the time when we first get to any really trustworthy history, we find that the struggle between the various races inhabiting Burma had been practically narrowed down into a triangular fight between three of them for the supremacy These three races were the Shans, the Burmese and the Talaings From the seventh century to the eighteenth these three races struggled against each other with varying fortunes, now one and now another getting the best of it, but without ever reaching any finality Even the conquests of Alompra in the eighteenth century would not necessarily have proved final supremacy for the Burmese The conquests of previous capable kings had disappeared under their feeble successors and Alompra's descendants were scarcely the men to keep what Alompra had won but before the glamour inspired by Alompra's victories had died away, and before the other races had recovered fully from his ravages, the whole nature of the struggle was altered by the arrival of the British When they first came, the Burmese race was still practically supreme in the country, but it must not be forgotten that it had only very recently become so and quite possibly, might not have remained so

To give a concise account of that struggle during a thousand years and more, between the three contending





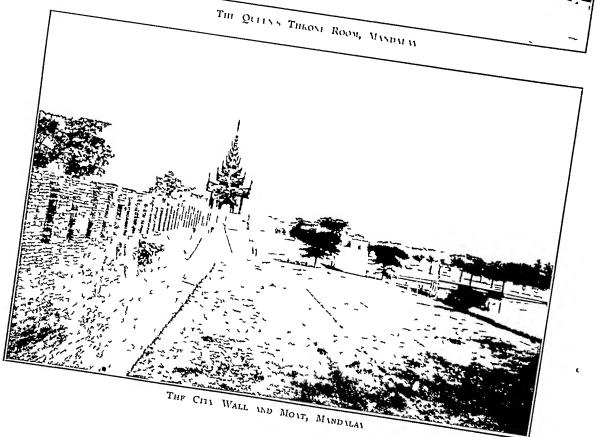
rices is impossible. The attempt could only end in confusion. It would be as perplexing as a combined history of Scotland. England and France for the centuries preceding the death of Queen Elizabeth. We shall arrive at a clearer idea of what did occur by taking each race separately and it will be best to begin with the Shans. They are the most widely diffused race in Indo-China and in Stam are still an independent power. They are more energetic than the Burmese and Falaings and but for their tendency to split up into small States, would probably have become the dominant power in Burma. Though Shan chron cles have scarcely been studied at all is yet a good deal of their history can be gleaned from Chinese innals. Of what is known of them Sir George Scott gives a full account in the Upper Burma Gazetteer and it is from his account that the following brief summary is mainly derived.

There is no doubt that South-western China was the original home of the Tai or Shan race, or rather v is the region where they attained to a marked separate development as a people Burmesc annals speak of invasions by "Tavoks" in very early times. In modern Burmese this name is applied to the Chinesc, but these Tayoks could not have been Chinese as the Chinese vere shut off from contact with the Burmese until after the conquest of Lunnan by Kublai Khan in 1253 \ D These Tayoks must have been Shans Lite Dr. Cushing is the only real authority on the Shans He urges that the great homogeneity of the different divisions of the Tri race can be accounted for only by the existence of one or more strong Ini States in Southwestern China for a considerable time before the first historical notice of their Nan chao Kingdom early in the seventh century Dr Cushing says that the first migrations of the Tai into Burm's began about two thousand years ago, but, however this may be it is not until much later that we have any authentic Shan chronicles refer to the Mao Kingdom as having begun in the seventh century of our era Every thing points to this having been a kingdom of the Mao Shans who settled along the Shweh river This kingdom maintained itself with varying degrees of prosperity until the rise of Anawra-hta, the Burmese king of Pagan, whom Mr Parker considers the first definite king in Burmese history. This monarch gained ascendancy in much of the plain country, which up till then the Shans had held Anawra-ht i set out for Chin i in quest of the Buddha's tooth, but probably never got further than Yunnan On his return, Anawra-hta married a daughter of the Mao Shan king Anawra-hta seems to have claimed the Mao king as a vassal, but the Shan chronicle denies any such vassalage Whether there was any acknowledgment of vassalage or not, it is quite clear that when Anawra-hta's reign came to an end in 1052 A D, the Sawbwa of the M w kingdom remained independent. Nearly two centuries later the dominion of the Mao Shans was enormously extended Hso Hkan Hpa succeeded to the Mao throne in 1225 A D His suzerainty was acknowledged as far south as Moulmein, that is, far into the Tilning country eastwards it extended to Keng Hung His dominions were extended westwards by the overrunning of Arakan, the destruction of its capital, and the invasion of Manipur Assam was subjugated in

1229 \ D and passed under the rule of the Shans, who were henceforth styled thom in that country For nearly thirty years after the conquest of Yunnan by Kublu Khan, the Chinese hung about the frontier and in 1264 \ D & Mongolium force we are told, swept down on the Burmese capital, Pagan, and overthrew the Burman monarchy. This expedition seems to have done no harm to the Mao kingdom through which it passed the presumption therefore is that there was some agreement or alliance. The weakening of the power of Burma was favourable to the Mao kingdom, and it is claimed that the Mao territories were increased by the conquest of the Menam valley to Avuthus and of Yunzalin and Tavoy This we know was rather the commencement of the present kingdom of Siam than its conquest by an irmy of Mao Shans and conversion into an integral part of the Mao realm We have seen that in the eleventh century the Burmese had driven the Shans back from the plains into the hills, but by the end of the thirteenth century the Shans had far more than recovered lost ground They were then the dominant power not only in Burma, but beyond it. Their conquests had extended to Si im and though Kublai Khan had conquered Yunnan they were still no doubt a power to be reckoned with in Western China From this time onwards however, the Shan power seems to have wined. Up to this period there is considerable correspondence in the details of the various Shan chronicles. Afterwards they diverge and become more local. It may be that up to the time of Kublai Khan's conquest of Yunnan some cohesion was due to the recognition by ill of a dominant Saabaa at Tali When he was overthrown, the race split up into a number of unconnected principalities and has remained disunited ever since The history of the next two centuries is somewhat obscure, but there can be no doubt about the steady decadence. The Samese and I ao dependencies became i separate kingdom under the suzerainty of Author the old capital of Siam Wars with both Chin and Burma were frequent. The King of Pegu conquered the Mar territory in 1562 \ D Subsequent Chinese invasions in 1582 and in 1604 A D put a final end to the Mao Shan dynasty From that time onwards though the various Shan States remained restive and rebellious, those in Burma were never able to completely throw off the Burmese yoke

Turning now to the history of the Burmese there is no doubt that this race came originally from Tibet The first capital of which there is any trace was Tagaing, but this existed in pre-historic times and little can be affirmed about it except that at some uncertain period there was a monarchy there, and the clay tablets still to be found on the spot show that Hindu influences were predominant. Whether it was founded by immigrants from India who gained in ascendancy over the Tibetans who had previously settled there is uncertain. Burmese traditions says that a Sakya chief named Abhi Raja came from kapilavastu long before the birth of Gautama and built the city of Tagaung Tradition probably antedates by centuries the coming of Indian settlers to the upper part of the Irrawaddy, but they did come in pre-listoric times and exerted a considerable influence in moulding the Tibetan





immigrants into the Burmese nation. Nothing very desimite, however, is to be gleaned from the chronicles until we come to the reign of Thinka Yaza in the seventh century of the Christian era This man had been a monk, but, on the death of the previous king, he threw off the yellow robe, married one of the queens of his predecessor and ascended the throne It was he who established the era still in use among In connection with this Sir Arthur Phayre says —"The common era which he established commenced in A D 639, on the day when the sun is supposed to enter the first sign of the Zodiac This era is now observed in Burma The reformation of the calendar was probably brought about by the assistance The Burmese system of of Indian astronomers astronomy and method of computing time are essen

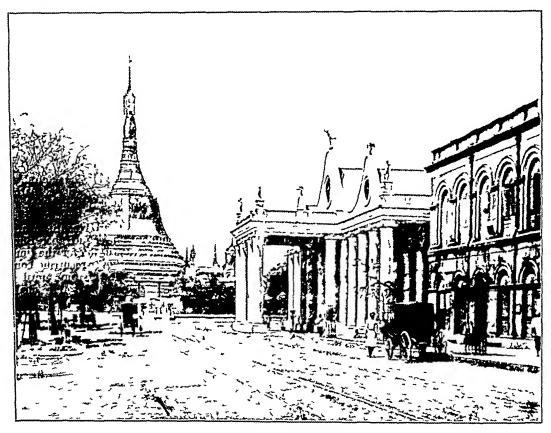
tially those of the Hindus' The extracts from the T'ang history, which have already been quoted, show that in the ninth century the Burmese had attained to very much the same state of civilisation as they had in the nineteenth century But though the boys all went into monasteries even in the ninth century, the Buddhism taught there had apparently become corrupt Or, it may have been that dragon worship was drawing the people away from The Burmese chronicle says that at the end of the tenth century of the Christian era the whole country was devoted to this wicked superstition the year 1010 A D, however, King Anawra-hta ascended the throne He was capable and energetic and did much to bring the Burmese race into a position of supremacy As we have already seen, he drove back the Shans from much of the plain country which they had previously held He also waged war on the Talaings, marched to their capital Thaton, levelled that city to the ground and returned to his own capital Pagan, bringing with him a large number of captives, including the Talaing King Anawra-hta had noticed the magnificent shrines at Thaton and it was with the view to raising similar buildings at Pagan that he brought so many captives He laid the foundations of Pagan's greatness Its ruins testify to this day that it The ruins cover an must once have been a great city area of several square miles, crowded with shrines and temples of various sizes and in every stage of decay It is a wonderful scene of desolation, in many ways the most striking spectacle in Burma and full of interest to the archæologist Nor did Anawra-hta's religious zeal confine itself to temple building He put down drugon worship with a firm hand and purified religion. The Talaing captives no doubt helped to introduce purer Buddhist doctrine, as well as to build more magnificent shrines than any the Burmese had been able to build before Anawra hta died in 1052 A D after a reign of 42 years He was succeeded by his sons Saw I u and Lyansitha, the latter of whom built the Ananda pagoda, the most noted temple in Pagan grandson of Anawra-hta named Alaung Sithu had also a long reign and to some extent, emulated the exploits of He built two large temples near the his grandfather Inanda pagoda at Pagan, and he sent an expedition into Arakan, a fact which shows that at that time the Pagan Kings had some authority over the greater part of Burma This supremacy was kept for some time, but

in 1284 A D, a Mongolian force swept down on Pagan and overthrew the monarchy. The reigning King is said to have provoked the Chinese by killing the Ambassadors sent to demand tribute. After the overthrow of Pagan by the Chinese the country to the north of it was parcelled out among a number of Shan chieftains while the Talaings and other conquered races in the south rose in rebellion and formed independent kingdoms of their own

At the end of the thirteenth century, when the Shans were at the zenith of their power, the Burmese were altogether crushed for the time Pagan was destroyed and no subsequent capital seems ever to have attained a magnificence at all equal to that of Pagan The next capital was Sagaing where in 1315 A D Athin Khaya founded a Shan dynasty In 1364 A D, however, his grandson founded Ava which continued to be the Burmese capital up to 1593 A D, when the kingdom was overthrown and there was no ruler for five years In 1598 A D, Nyaung-yan Mintaya, the son of the King of Taung-ngu, came to Ava, took over the government, and Ava continued to be the capital until quite recent times Although the Burmese had a capital at first under Shan Kings from the beginning of the fourteenth century with one or two breaks right up to nearly the end of the nineteenth century, the extent of territory they ruled varied very greatly from time to time Sometimes the King's authority extended only a little way from the capital, at other times it was felt throughout the greater part of the The history of the centuries that followed the overthrow of Pagan are a long record of struggle At the beginning of the fourteenth century the Shans were the dominant power in Upper Burma, the Burmese being completely crushed for the time being It took three centuries of ever-recurring conflict to reverse this position and it was not until Chinese invasions in 1582 and 1604 A D put a final end to the Mao Shan dynasty that the Burmese were able to reduce the Shan States to some sort of vassalage

Throughout this period the struggle was not only with the Shans Chinese invasions were not always restricted to Shan territory and there was plenty of fighting to be done elsewhere Once the Burmese had begun to recover a little from the crushing defeat at the end of the thirteenth century, they began to remember Anawra-hta's subjugation of the Talaings in the eleventh century aspire to supremacy in that direction again Talaings had, of course, thrown off the Burmese yoke after the fall of Pagan, and a century later the Talaings were strong enough to fight the Burmese on fairly even terms The new Talaing capital was at Pegu For centuries the struggle was carried on, with comparatively brief interludes of peace. It would be wearisome to follow these interminable wars in detail The Burmese invaded the Talaing country and the Thlaings invaded Burma over and over again Novone side was victorious and then the other, but the duel never came to an end In 1752 A D, however a Talung army invested Ava, captured it, burned the city, and carried off the King and other members of the royal family as captives to Pegu This was just before the rise of Alompra who soon reversed the position, but it is better to take the later history separately as from Alompra's time it is possible to take the history of the country as a whole. The only point that need be added in the history of the period from the fall of Pagan in the thirteenth century to the fall of Ava in the eighteenth is that the Burmese during all that time had other foes to light besides the Shans and the Talaings. Governors of provinces occasionally set up as independent kings on their own account. At times we hear of kings of Prome, of Taung-ngu and of Arakan, all of whom helped to make confusion worse confounded. The kings of Siam too interfered in the internal politics of Burma and stirred up one king against another.

inland. Although An a re-lita conquered them in the eleventh century of the Christian era, they were clearly more advanced than their conquerors more skilled in building and probably more learned in Buildinst doctrine. I rom the eleventh century to the end of the thirteenth they seem to have been kept in some sort of subjection by the Burmese but after the full of Pagan they regained their independence and in 1385 a capable king named Rajadirit ascended the throne of Pega. He reigned for thirty-eight years during which time he did much to consolidate the Islang Kingdom and in the intervals of fighting he beautified the new capital Pega. During his reign the wars with Burma were prosecuted with vigour, and he



TOWN HALL AND SULF PAGODA, RANCOON

There remains only the history of the Talaings According to Mr Taw Sein Ko, this race belongs to the Mon-Khmer stock. They were, he thinks, the first immigrants and are now represented by the Talaings and Cambodians by the struggling and scattered tribes of Khasias in Assam and by the Palaings and Was in the Northern Shan Sates. The Mon-Khmer appear to have entered Burma from northeastern India, as it has left its congeners the Bhils and Gonds behind. Of their early history very little is known except that, owing probably to their being settled on the coast, Indian influences had been at work on them with more effect than on the Burmese

entered into friendly communication with the king of Siam. He also drove out the Burmese regent at the capital of Aiakan, and a Talaing force occupied. San doway. Unlike most eastern potentates Rajadirit kept his bodily ictivity to the last, and died from the effect of a wound received in hunting a wild elephant. Indian Mahomedans are said to have taken part in

indian Mahomedans are said to have taken part in some of the wars of the fifteenth century, fighting as a rule on the side of the Talangs, but it was not until 1538 A D, that any Europeans are mentioned as siding in war with any of the contending kings. In that year the king of Taung-ngu was attacking Pegu, where there happened to be a Portuguese galliot, which

had been sent from Goa to trade in Pegu The commander, Ferdinand de Morales, joined the Talaing flotilla in the battle which took place in the river but,

in spite of his help, the Talaings were beaten

According to Sii Arthur Phayre, however, the king of Taung-ngu was largely indebted for his success on this occasion to the desertion of their master by the leading officers of the king of Pegu The latter was a foolish lad who had only recently succeeded to the throne The kingdom of Taung-ngu was one of those small kingdoms which had sprung up in different parts of the country started in most cases by rebellious governors, but Taung-ngu had been the refuge of those Burmese who were dissatisfied with the Shan kings of Ava, and by the beginning of the sixteenth century the king of Taung-ngu was looked to as the refuge and hope of the Burmese race He claimed descent from the kings of Pagan and his attack on the Talaings in Pegu was the first step in an ambitious project to regain the throne of Ava and supremacy He did get to the gates of Ava, but ın all Burma finding the confederacy of Shan chiefs too strong for him, he returned to Pegu Afterwards he invaded Arakan, but returned hurriedly on hearing that the Siamese had attacked Tavoy He then invaded Siam, After this his character seems to but had to retreat A small body of Portuguese, probably have changed employed as gunners, under the command of James Soarez, had accompanied him to Siam in 1548 A D The king made a companion of the nephew of Soarez and under this youth's influence became a confirmed drunkard

The Portuguese had occupied Malacca under Albuquerque in 1511 A D, and eight years later they concluded a commercial treaty with the Talaing king's viceroy at Martaban After his conquest of Pegu the king of Taung-ngu called on this viceroy to submit to him, but trusting to the support the Portuguese could give him, the viceroy refused In spite of Portuguese help, however, Martaban fell Throughout the sixteenth century the number of Portuguese in Burma They traded and they were always ready to take part in the various wars of the country story of Philip de Brito is a veritable romance Originally a ship boy, he became a menial in the palace of the king of Arakan Then he was sent to take charge of the custom house at Syriam He got permission to build a custom house of brick, and then built a fort to protect the custom house. The next step was to expel the Arakanese governor and to take over his office. De Brito then went to Goa to seek authority to hold the town under the Portuguese viceroy there Meanwhile Salvador Ribeyro was left in charge During de Brito's absence the king of Arakan sent a large force to retake the town, but Ribeyro refused to surrender To prevent his countrymen from escaping while suffering from hunger he burned the three ships he had in fort. At length relief was sent by the viceroy and the investing force Ribeyro then set to work to conciliate the Talaings, who now offered to accept de Brito as king of Pegu He, in the meantime, had married the viceroy's niece and returned to Syriam with the title of Captain General He had six ships with him, and proclaimed

his reception of the kingdom in the name of his sovereign He put the fortifications in order, built a church, and marked out the limits of the city which might have become the capital of a great Province under the crown of Portugal But de Brito took no pains to conciliate the native population. On the contrary, he outraged the feelings of both Burmese and Talaings by digging into the pagodas and seizing all the golden images and precious stones he could lay his hands on He also forced great numbers of them to accept Christianity At last, in 1613 A D, a Burmese force besieged Syriam, a Talaing chief in the town opened one of the gates at night and de Brito was taken and impaled on a high stake before his own house Many of the Portuguese were executed and the remainder including de Brito's wife, were sent as slaves to Ava

By the middle of the seventeenth century new troubles came on the Burmese and began to sap such ascendancy as they had gamed throughout the Marauding bands of Chinese harassed the northern portion of it, and, aided by the Siamese, the Talaings began to make some headway in the south By the year 1672 A D, the king of Burma had recovered lost ground to a considerable extent, but in that year he died, and, under his incapable successors, the empire steadily decayed About the year 1733 A D, a Burmese army was defeated on the frontier of Manipur, and later on the Manipuris invaded Burma on more than one occasion The Talaings, of course, were not slow to take advantage of the decay of the Burmese They first regained their independence, and after some years of fighting, were able to take Ava in They burned the city to the ground and 1752 A D carried off the Burmese King and other members of the royal family as captives to Pegu

THE ALOMPRA DYNASTY

The crushing defeat which the Burmese received at the hands of the Talaings in 1752 A D, was soon reversed, not by any member of the Burmese royal house, or by any one in authority, but by an obscure individual of whose early history very little is known Of course, all sorts of stories sprang up afterwards about royal descent and portents at his birth, but these may be dismissed as fabulous He was certainly quite an obscure individual and, apparently, commenced life as a hunter, an occupation which is looked down on by the Burmese At the time of the Talaing conquest, however, he seems to have obtained some subordinate position under a local official He stood almost alone in refusing to swear allegiance to the Talaing king A party of fifty men was sent to summon him to appear, but having secured forty followers he surprised the Talaing party and killed them all This initial success increased his following, so when a larger party was sent against him, he was able to defeat them also He went on from one success to another until in December 1753, that is, in less than two years from its conquest by the Talaings he was able to reconquer Ava The Talaing king did not submit tamely to this and in the following year sent a force to retake it, but this also was effectually

ented. The upstart had meantime taken the ne of 'Maungpayah'' or "embryo Buddha' iame which has been corrupted by I inopeans into impra. In 1755 he carried the war into the mys country. Without vaiting to conquer the ital Pegu, he moved down to the great Sha gon Pagoda drove away the Lalaings and in May Lout the city of Rangoon which he desirned to the future port of his empire. The name he chose is mently characteristic of the man. So contident was softhis ultimate success, that though Pegu v is still subdued he named the new port. Yarene which hans' the termination of the war. Sayi in had herto been the port and here there were I prope in deers but Mompra being well aware of the issistance uch might be derived from Luropeans, pass orders at they were not to be molested. It was not

til 1757 that gu was taken en up to plun r and the build destroyed ie conquered ng was taken as as a captive mbers of the habitants were assacred and ousands of men omen and chil en were sold as aves After this lompra seems to we encountered o serious resistace though there ere some futile isings of the alrings and ome minor collions with the hans In 1758 e marched into lanıpur terriory, nominally to ettle a dispute



RURMIST LADY

bout the succesion there. When he arrived at the chief town, owever, he found that the inhabitants had all fled o the mountains. Intoxicated by his rapid rise rom obscurity to imperial power he next decided o invade Siam At first he was successful there lso and managed to advance as far as the capital lyuthia The Siamese King, however, determined to old out until the rise of the river should flood the amp of the besieger Alompra was alive to this langer He was unable to take Ayuthia, nor was ie prepared to support his army for an indefinite time Ie sent conciliatory messages saying that he had come, not to destroy the city, but as a Bodhisatwa to preach he law of holiness He would subdue men's hearts by andness as Gaudama Buddha had done The Sinmese idiculed his pretensions and defied his power. At this uncture Alompra becamt very ill, so a retreat was

ordered The retreating sums to much harroad he the Similar and when half say to the Sale ben Mompry died That was in May 1760 A.D. The body y is conveyed to the capital and was burnt the exath the rite of a Chalery officer univer al monarch. He extern had certainly been a most remarkable age In eight year, he had rion from oho prity to a theoand had brought he raw from a creeking defeat to supremies in the country. Had he ben content with this and set hims If to convol date his power in Burms he meteorible resemble have hid ruck more permanent effect, than it had. He sas only forty six years old when he died and but for the ill idea ed expedition to Sam mulit perhaps have lived for many veirs lengt. A star is to left at example to his encre or of overxant neamb tion and extravarant preteasions which had to the



BUSHESI PRIEST

day afall. SHILL SOFS had the faults in fell mersure but m mo * instances conspicuously lacked Momprak ability thoush in 1767 V D a Burmer army did tide and destroy the captal of Sum and in the follos mi vear a Chinese insus on of Burma 1 is driven back. The Chinese invisions for there vere several of them orra ton rim been the fruit of the Mompra dinists but the my isions of Siam of Manupur and other aggressions were immeressors We may, perhaps except that of

Arakan which had been a part of Burma in former times but had regained independence and had not been subdued by Alompra. That was subdued by the Burmese without much trouble in 1784 \ D. But the consequences of the conquest of \ \text{Arakan} were disastrous in one way for it brought the Burmese kings into direct collision with the British power in India. The cruel oppression of the Burmese drove many of the \text{Arakanese to settle in British territory across the border. Among them were three chiefs who had long resisted the Burmese. In 1794 \ D., a Burmese force crossed into British territory to demand the surrender of these three chiefs who were given up as fugitive criminals. The British Indian Government was most anxious to avoid in serious conflict with Burma, having quite enough to do in India. But the infatuation of the \lambda lompra dynasty.

left no option studious discourtesy at the Burmese court, and before British envoys were treated with the end of the eighteenth century 1 Burmese mintary force again marched into Chittagong to compel the return of fugitive Arabanese Nor was this the last of such aggressions according to Sir Arthur Phayre, of Burma was actively or more actively engaged in intrigues with some of the native princes According to Sir Arthur Phayre, engaged in intrigues with some of the native princes of India. The direct object of these secret negotiations.

The conguest of trakan did not appear until later The conquest of Arakan had brought Burmese officers into more immediate

contact with India than it any previous period, and the ambitious king was inspired with the desire of acquiring the districts of Eastern Bengal, at least as far as Dacca which had once belonged to Arakan Even a claim to Murshidabad was some years often ards

There was constant aggression on the part of the Burmese at frontier and various petty elements. petty skirmishes had taken place between Indian Burmese troops early in 1824 A D and an army of six thousand Butmen was sent under Bandula with orders to advance on Chittagong The British Government had stationed a brigade at Chittagong, but it was much too weak for the work required The first encounter took place between a detachment under Captain Norton
of the 40th Bengal Native Infantry and about four thousand Burmese troops Captain Norton had only three hundred and fifty

regulars with six hundred and fifty of the of Arakanese refugees The Burmese affact of and of Arakanese refugees The Burmese attacked and drove the British force from its position To penetrate to the capital of Burma overland from Chittagong Would have been a very difficult, if not an impossible, tash, so war having been declared, troops were sent by sea to Rangoon so as to penetrate the country by Rangoon was occurred on the the Irrawaddy valley the irrawaddy vaney
IIth of May 1824, but it was not until 24th February
The terms 1826 that the treaty of Peace Was signed Rangoon was occupied on the were that the treaty of peace was signed towards the Burmese were to pay one million sterling from all interference in future in Manipur and alcounters towards the expenses of the war, were to abstant havond their houndaries on the Indian side and were beyond their boundaries on the Indian side, and were

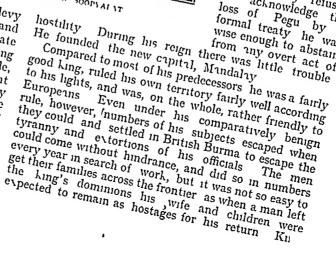
to cede Assam, Makan, and the coast of Tenasserim to the British

After such a lesson as this, one would have thought that even the Alompra dynasty would have learned to curb their arrogant pretensions and to keep up the appearance at least of civility to the British appearance at least of CIVILITY to the British But repeat itself British envoys to the Burmese kings Were treated with discourtesy, acts of violence were committed on British ships and British seamen committee on british surps and british seamen A series of negotiations followed, nothing was demanded beyond a very moderate compensation for the injuries inflicted on the masters of two British vessels, an apology for the masters of two Dritish vessels, an

Rangoon to the representative of the British Government and the re-establishment of the appearance at least of friendly relations by the reception British Agent by the of a Burmese Government But it was all useless The king would do nothing The result Was the Second Burmese War, the first shot in which was fired in January 1852 By the end of that year the whole province of Pegu was annexed to the British dominions No trenty was obtained, but the Burmese king was warned that any of hostility on his part demonstration would be followed by retribution

By the end of 1853 King Mindon ascended the throne, and, though he absolutely refused acknowledge the loss of Pegu by 7 formal treaty he was

wise enough to abstain from any overt act of

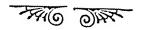




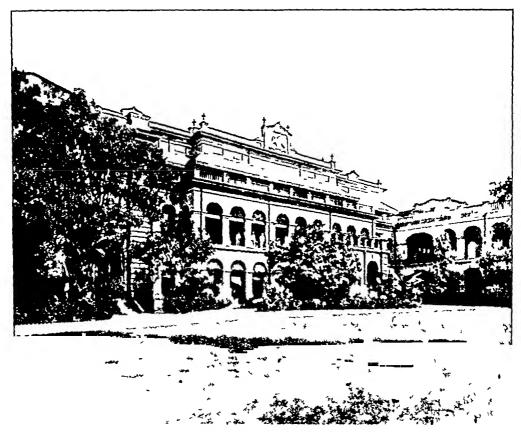
KING THEFRAN AND QUEEN SOOPIAL IT

Mindon died in 1878, and by a Palace intrigue. Thib is was put upon the throne. He was a lid of trenty which was probably his main recommendation in the eyes of the Queen and the Mm ster who engineered the They did not want a child a plot for his accession that would have involved the appointment of a regent not did they want a fully grown man who would have taken the power into his own hand but a lad of twenty could probably be manifed for one years to come especially is he was in loce with the Queen's daughter Soopyalat Of all king Mindon numerous sons he seemed the most unlikely to accord as his mother had been convicted of infidelity, and had been expelled from the palice in 1861. The plot succeeded but if the object of it was to keep power in the hands of the intriguing Queen and Minister that object was not ettained being Thibar might perhaps have been managed. In point of fact he vas but not by the Oueen and Manister Soops alst very soon tool that into her own hands and practedly ruled the Their joint reign commenced with more than usually cold-blooded massicres of the royal family so as to effectually remove my possible competitors for the throne By 1870 the British I neor had to leave the capital | Thibay lent himself more

and more to tore an antrope and in the summer of 1885 matter come to are over edipote either Bomber Purma Iryling Company on that in pa problem sa unposed with the threat of contra ton of all the cribit, and property of the fine energy port The ult mate is all a the there Burne , Wer m which his ever there was very lette take . Within a fortivelyt of the delivery of the the expetit had fall nound the Lennond Once it is prioner. That vision with November 1885. A for hirder te than the officer of the person tion of the country after the annixit in Treeser, Mindens death for learning that have read to in line every direction, there is a direct hand to I hunted down before in third the court, of the net property could be given to the anti-orthogonal will a de tout one rears to second high but the effect and not it has because of the off mine of the off sum grow to British Burns have return to that roll homes in Lopic Burers no that proceeds early rein there is a The exercision shaply be of it old home for a in to the deservoirille to be Burma the cultivator. In the as will much hard " and more preserrous than in the of the with it abund int runfill



The Survey of India



THE SURVEYOR GENERAL'S OFFICE, CALCUTTA Frontal View of Mun Building

THE Great Trigonometrical Survey of India was commenced in the early days of the last century, and it has now extended its network of triangles over the whole of India Its operations in the measurement of an arc of the meridian, and in affording data for determining the figure of the earth, have possessed the highest scientific value, and have served as the basis of innumerable useful undertakings. On it has been founded the Topographical Survey, which delineates the geographical features of the country, and the Revenue or Cadastral Survey, which provides maps of villages and estates and demarcates them with permanent boundary marks In 1878 the three branches were amalgamated under the designation of the Survey of India, whose officers were to be available for any description of survey work that might be required of them, and were all placed under the orders of the Surveyor-General

Previous to the commencement of the great Irigonometrical Survey, considerable progress had already been made in knowledge of the geography of the peninsula, and in connexion therewith two names stand out as identified with the production of the earliest known maps of the country These are Jean Baptiste Bourguignon D'Anville, the eminent French geographer who lived from 1697 to 1782 and Major James Rennell, whose labours in the survey-held extended over a period of thirteen years only, ic, from 1764 to 1777, in which year he resigned the service and returned to England with a scheme for the utilization of the large mass of geographical material then laid up and "perishing in the India House". But nearly one hundred years before the first of these early orn the Emperor and that of his Akbu had, under

able and enlightened minister, Abul Fazl, carried out

a complete survey of his empire, the results of which were recorded in the Ain-i-Akbari, which also comprised a full account of everything connected with his dominions, government, and occupations, from the highest affairs of State down to the training and feeding of hawks. The statistical details, describing the extent and productions of the different provinces, if or revenue purposes, in which respect Akbar relieved the people from a great part of the taxes levied the mapping of British India have, of course, survey of India it is necessary to understand some. Survey field of India the pioneers of the conditions survey and in the which the pioneers.

geography laboured D'Anville is due the credit the earliest map of modern India, he compressed into that form all the available knowledge of the time, but the work that he did for Indian geography appears to the larger field of his activnotice in ities for in several of his biographies no allusion whatever is made to it In his system of work, booksgraphical formed the least $professedI_V$ studies while those of all D'Anville'sthe ancient and modern historians, travellers, parrators of every descripexamined He studied also were assiduously the philosophers, orators, and Poets, but only for the sale of the occasional geographical lights which they afforded for it was

remarked that in perusing which did not tend to fix as India was totally indifferent to everything from the routes of early travellers, rough coast charts of Anville's Map was published in 1752, and twelve in follow the foundation for the construction of a map desired in the foundation for the sources of early travellers, rough coast charts of a coast charts of the foundation of the foundation for the construction of a map was published in 1752, and twelve it follow the admirable work of D'Anville Rennell of the foundation for the construction of a map destined on the Army under Clive in which he rose to the rank the

of Major and eventually became Surveyor-General of Bengal Rennell while in the Navy appears to have been a particularly keen and zealous officer, and when he was not engaged in actual fighting, he devoted his time to topographical work. It is not known what first turned the lad's attention to surveying, but his letters show that he came out to India provided with useful books and instruments, and they contain from time to time notes on various surveys carried out by him In 1762 he left the Navy and Joined the East Company's Service, and went, apparently as a Surveyor, on board a Company's vessel which was despatched on a reconnaissance to Manila and the neighbouring islands. He subsequently obtained command of a Company's ship, and later on he made surveys of the coast about Cane Calumere and of the surveys of the coast about Cape Calymere and of the

Paumben Passage In 1764 he arrived in Calcutta, and through the interest of the Governor of the Presidency, Henry Vansittart, he obtained an appointment as India Company's dominions in Bengal," and on the same day, that the the same day that this appointment was gazetted, 9th April, 1764, he received his commission as Ensign in the Bengal Engineers In 1767 his position was raised to that of Surveyor-General, and at the same time he was promoted to Captain In their letter to the Court of Directors, reporting this promotion, the Council at Fort William say - "We have appointed Captain Rennell, a young man of distinguished ment in this branch, Surveyor-General, and directed him to form one general chart from those already made, and such as are now on hand, as they can be col-



The most famous of the early English Geographers
Burned in Westminster Abbey

The most famous of the early English Geographers

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Indifferent to everything.

does not prevent him prosecuting his own surveys, lected in This, though Practically, though he was sometimes engaged in attended with great labour, Works of construction or demolition, Rennell's work as a surveyor occupied the whole of his Indian ser-Vice, and in the course of this employment he reduced to order and substantial accuracy the map of Bengal, and accumulated a great part of the material which he afterwards utilized in the determination of all the he afterwards utilised in the determination of all the important Points embraced in the first approximately correct map of India His merits were highly appre-Clated and his rise was rapid. In 1775 he attained the rank of Maran and two vocan later he actually the the rank of Major, and two years later he resigned the Service His survey covered an area about 900 miles in hreadth and extended from long and 240 miles in breadth, and extended from the eastern confines of Bengal to Agra, and from the

foot of the Himalayas to Culpee The distances appear to have been chained, and observations were taken for latitude and longitude at certain stations

Rennell went home in 1778, and there he devoted himself to the literary elucidation of geography great work on Indian geography was the Memoir of a Map of Hindustan, in which he attempted to reconcile a vast array of very conflicting geographical data Previous to this, however, he had, among other publications, brought out his Bengal Atlas, which contained 21 maps and was a work which left far behind everything in Indian cartography published up to that date (1781) His Memoir was of gradual growth, and underwent five developments published in its first form in 1783 it did not attain its final dimensions until ten years later In his Preface to the last edition Rennell says -" Considering the vast extent of India, and how little its interior parts have been visited by Europeans till the latter part of the last century, it ought rather to surprise us that so much geographical matter should have been collected in so short a period, especially where so little has been contributed towards it by the natives themselves, as in the present case ' It was D'Anville who first set the example of accompanying the map with a memoir exhibiting the data on which it had been constructed, and his lead was followed by Rennell and many of the earlier Indian

geographers

Rennell was succeeded by Colonel John Call, who had already made some route surveys of the southern part of the Peninsula The following years saw much good geographical work done by disciples of Rennell Colonel Pearse had been engaged in making astronomical observations at Calcutta from about 1774 to 1782, and in the latter year he undertook a journey to Madras for the purpose of fixing positions and laying down the intermediate coast line for a distance of 700 This work occupied two years, and Pearse was ably assisted by Colebrooke, the future Surveyor-General of India During this period intelligent surveyors accompanied every army in the field, and good route-maps were thus obtained In 1783 Colonel Kelly was reported to have made a most valuable collection of routes and maps of the Carnatic during a long course of service Colonel Pringle also made maps, and measured 2,000 miles of road in the Carnatic during the war with Hyder Ali Thus, material was rapidly accumulating, and Colonel Call, the Surveyor-General, undertook the compilation of an Atlas of India in 20 sheets, to be embodied later into one general map on a smaller scale In 1787, when Colonel Call was compiling this map, he found so many contradictions and absurdities in the various surveys that he requested Mr Reuben Burrow, an experienced marine surveyor and an accomplished mathematician, to consider the subject and draw up a plan for determining astronomically the position of the various stations in Bengal Eventually Burrow received orders from Colonel Wood, who had meanwhile succeeded Colonel Call as Surveyor-General to determine the latitude and longitude of Murshidabad, Rajmahal, Monghyr, Patna, Dacca, Goalpara and Chittagong We are told that the difficulty in procuring the necessary instruments and equipment for this Government expedition could only be overcome by borrowing a sextant here, a watch there, and a quadrant in another quarter, from different officers in Calcutta who happened to possess them Burrow also went up the Ganges as far as Hardwar, taking observations and making careful notes of everything he saw

When Colonel Wood took up the Surveyor-Generalship he was strongly impressed with the importance of making the marches of troops serve the promotion of geographical knowledge, and he actively collected material and information for the making of correct maps wherever they were to be thus obtained 1792 he received the surveys of Lieutenant Emmett of portions of the Deccan, and in the following year his assistant, Lieutenant Colebrooke, submitted a map of that part of Mysore traversed by the army under Lord Cornwallis In the same year Major Kyd surveyed the route from Seringapatam, through Coorg, to the West Coast, and Dr Hunter, the Surgeon to the Residency at Sindhia's Court, sent in route surveys made on marches from Delhi and Agra to Gwalior and 1 map of Calcutta and its environs was made by Mr. Upjohn in 1794, and in 1795 Lieutenant Hoare received instructions to make a survey of the river When Captain Symes went on a mission to the Court of Ava in 1795, he was accompanied by Dr Buchanan and Lieutenant Wood The latter surveyed the route, and later on submitted a map of the Irrawaddy from Rangoon to Amarapoora the Bombay side Captain Moncrieff surveyed the district of Canara in 1799, and Colonel Charles Reynolds made a careful route survey of Malwa and part of Bednore Much of this early work was of course very maccurate, and maps of that period were only of service when India was an almost unknown region, to be traversed by armies, and they ceased to be of practical use when the country became British Imperial possession, requiring to administered

At the commencement of the nineteenth century the great triangulation was begun, which was to furnish a permanent geodetical basis of the highest order of accuracy for all future surveying operations in The process of constructing maps from route surveys and astronomical observations was gradually discontinued At that time it had only recently been acknowledged that a trigonometrical survey was the only accurate basis for mapping a country. The man only accurate basis for mapping a country. The man who organised the great Indian Survey was an Infantry officer serving in the army of General Harris in the war with Tippu Sultan His name was William Lambton, and he was well acquainted with the methods of observing and computing which were in use among the learned men who had but recently been engaged in the measurement of arcs in Europe After the fall of Tippu Sultan, Lord Wellesley took measures for exploring and collecting information respecting the vast territory which had thus been thrown open to the British Dr Buchanan was employed to report upon the agriculture and products of Mysore and Malabar. Colin Mackenzie proceeded with his topographical surveys and memoirs, and it was then also that Major Lambton submitted his project for the measurement

of an arc of the meridiin, and for a trigonometricil survey across the Peninsula I ambton's proposals were supported by Sn Arthur Wellesley and approved of by the Midras Government, and Lambton himself vis appointed to conduct the measurement but it vas not until 1802 that he was furnished with the necessary instruments to proceed with his project. Me inv hile he organised an efficient staft but from the first the staff of the great trigonometrical survey vas distinct from those of the topographical and revenue surveys By the trigonometrical survey a network of primary triangles vas formed with numerous fixed positions By the topographical and revenue surveys the details were filled in and the data for the map collected so that the nature of the work the truming and the objects were distinct. I unbton's instruments we ire

told were a theodelite, zenith sector and steel zenith sector The 3-loot theodo chain lite, by Ciry was captured on the passage to India by the French fugate

Piemontaise ' and landed at Mauritius, but it was eventually forwarded to its destination by the French Governor, De Caen with a complimentary letter to the Governor of Madras The zenith sector was one of 5 feet radius, by Rams den, and the chain was onc that had been sent as a present to the Emperor of China with Lord Mac-irtney's Embassy, and re-fused. It was hinded over Dinwiddie, to Mr astronomer to the Mission apparently in part payment He for his services brought it to Madras, to-gether with the zenith sector, and both were purchased by the Government for Lambton's survey

Lambton started his Liest Supdit of The Great Trigonometrical Survey 1850-3 survey in 1800 by measur-

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ing a base line at Bangalore This was subsequently rejected, and the actual work of the great trigonometrical survey of India was commenced on the 10th April, 1802, by the measurement of a base line near Madras, and the ground selected by Major Lambton for this operation was a flat plain, nearly eight miles long, with St Thomas' Mount near its northern end and Perumbauk Hill near its southern extremity base line was 7½ miles in length, and the measurement was completed on the 22nd May, when observations were taken to determine the angle of the base with the From the base line Lambton, by means of triangulation, then proceeded to measure an arc of the meridian, and the length of a degree at right angles with the meridian in the neighbourhood of Madras. The measurement of an arc was, in a scientific point of view,

of the highest importance The measured base line the series of accurately-measured transfes and points, fixed by numerous astronomical observations, all of which, are necessary for determining the shape of the earth were the bases from which as a bull-hone the triangulation vas to be extended over the whole of The primary triangles formed guides by which the topographical and revenue surveyors were enabled to fill in the details and deline ite all the main features of the country within fixed limits of error. From the Madras baseline a series of trangles vais carried up to the Mysore plate in, and a second base vas measured near Bangalore in 1804, by Lieutenant Warren is a datum for extending the triangles to the Malabar Coast, and is a base of verification for the triangles brought from the Widris base. I leuten int Kater vas

Colonel W I MBION F KS

despitched to select strtions in the mountains of Coorg and Bednore series of triangles in two degrees of latitude vas then carried across the Peninsula and having connected the two sides the series was next carried dov'n from the Bangalore base line towards Cape Comorm and a new base line vas measured at Combutore in 1806. In 1808 a base has a same usured at Langore and trangles vere formed connecting Impore v th \ igor ind \egapitim A base line was measured it Impresellem the follow ing year and primary triangles extended thence to the sea-shore at Punnae, eight miles North East of Cape Comorin These mea surements were known is "The Great Arc Series, and in addition to these mother series of triangulations was carried across the country from Negapatam to Ponnny and Calicut and

yet another round the coast from Rameswaram through Travancore and Cochin to Calicut The arc series was thus completed from Cape Comorin to Bangalore by 1811, when Lumbton turned his atten tion to its extension northwards in the direction of the Himaliyas

From the 1st January 1818 the Trigonometrical Survey, which had up to that time been under the Madras Government, was transferred to the immediate control of the Governor-General who ordered it to be called for the future "The Great Trigonometrical Survey of India" Captain Everest was appointed chief assistant to Major Lambton, who was at that time gradually wasting away, owing to the hardships he had undergone in the field, and June 1819 was the list occasion on which he actually took pair in the work

of triangulation, although he still continued to work at the zenith distances of stars. He begin once more to push on the Great Arc Series, and measured a base line at Takalkhera in the valley of Berar in the winter Menwhile, Everest had been detached to of 1822 bring up a series of triangles connecting Bombay with the Great Arc Series In January 1823 Lambton set out from Hyderabad for Nagpore but died on the way at Hinganghat on the 20th January 1823 it the advanced age of seventy years. Up to the time of his death he had completed the triangulation of 165,342 square miles at a cost of £83 537 His series of triangles along the Parallel 13 degrees from Mangalore to Madras vas the first attempt at a longitudinal Arc and by its means he detected an error of 40 miles in the breadth of that part of the Peninsula as laid down

in previous maps, and also discovered inaccuracies in the given positions of the chief towns

Major Lambton was succeeded by Captain (afterwards Sir) George Everest, who had been Lambton's chief assistant for upwards At the time of five years of his chief's death he was engaged on the Bombay Longitudinal Series, and on assuming charge he found the most advanced work to be the base line measured by Lambton at Takalkhera, but triangulation had not been extended to that point Here Everest commenced operations in November, 1823 He now had to take the Meridional Arc Series across the Satpura which bound hills valley of Berar to the north He carried triangulation across the hills as far as the plain of Sironj, where a base line was measured in November 1824 **Everest**

then went home on sick leave from 1825 to 1830, and during this time he was fully occupied in studying the newest improvements and superintending the construction of instruments on the most approved plans Meanwhile in India, a Longitudinal Series of triangles was extended from the Siron base to Calcutta, over nearly 700 miles of difficult and unknown country, and these operations were carried out under the superintendence of Mr Joseph Olliver Everest returned to India in 1830, provided with the best instruments procurable, including a large theodolite with an azimuth circle 36 inches in diameter, by Troughton, and two double vertical circles, 3 feet in diameter, by Troughton and Simms But the most important improvement introduced into the survey by Everest, at this time was the measurement of bases by compensation bars in place of the old

inaccurate method by chains. Of these compensation bars he brought out six sets. On his return Everest took up the combined appointment of Surveyor-General and Superintendent of the Great Trigonometrical Survey of India He found that Olliver had nearly completed the Calcutta Longitudinal Series, which origmates at Kulmapore and terminates at Fort William Everest determined to measure a base line of verification for the series and this experiment is interesting as having been the first base lines measured in India by means of compensation bars. Mr. Taylor, Astronomer of the Madras Observatory, was deputed to Calcutta to assist Everest in this measurement. In 1832 Everest resumed work in connexion with the Meridianal Arc Series which had hitherto been conducted over the clevated plateau of the Deccan, where numerous rocky



Sir Georgi Everise & C.B., R.A. Surveyor General, 1830 to 1843. Died 1866.

heights afforded excellent sites for stations but in the extension of the triangulations beyond the Sironi base very difficult country was It this time encountered Everest was supported by several most able and zealassistants, among others were Indrew Waugh, his future successor, and joined the Renny n ho survey in that year Olliver and Rossenride had already been in training for some \ears After the completion of some very tedious prelimmaries the great work of measuring the most northerly base for the Great Arc Series was commenced at the end of 1834, the region selected for the measurement being the Dehra Dun On March 28th 1835, the work of measuring was completed, and by Tebruary, 1837, the two survey parties in the field which were under working Colonel Everest and Indrew Waugh, respectively, had connected

the Dehra Dun base with that measured on the Sironj plain near Kalianpore in 1824 Everest likewise completed the Bombay Longitudinal Series, and designed and partly carried out a scheme for covering Bengal and Behar with a gridiron of A complete revision of the famous old triangles survey by Major Rennell was also designed by Everest, and for this purpose he originated several Meridianal Series from the Calcutta Longitudinal Series, to terminate at the foot of the Himalayas, and eventually to be connected by another Longitudinal Series along the base of the mountains is the gridiron system, in contradistinction to I ambton's network system of triangles. Everest retired in 1843 having completed one of the most stupendous works in the history of science in his measurement of

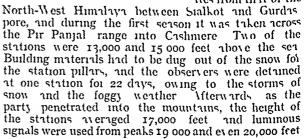
the Meridianal Aic of India 111 degrees in length In great part the Indian Survey to day is what he made it. He entirely altered and revolutionised the old system of Lambton by substituting the gridizon for the network system, he introduced the compensation bars which have since measured every base in India, he invented the plan of observing by heliograph flashes and the system of ray tracing, and although there have been modifications and improvements since his time, nearly everything in the surveys was originated by Everest.

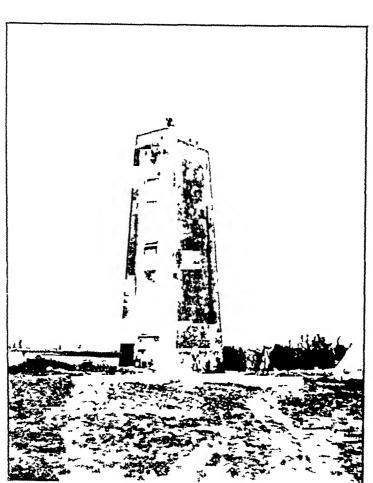
Sir George Everest was succeeded by Colonel Andrew Waugh, whose first work was to complete Everest's project for the tri inoí the gulation important region between the Great Arc Series and Calcutta including the North-West Provinces and Bengal came the Then North-Eastern Himalayan Series which connects the northern ends of all the Meridional Series, and the dangers and difficulties encountered in these operations were great This memorable series was commenced in 1845 and finished in 1850, and was at that time the longest series between mersured bases in the world, being 1,690 miles long from the Dehra Dun base to that of Sonakhoda, ın Purnea It was while the main chain of this series was in progress that the correct heights of the major Hima-

layan peaks were determined. The highest of the Himalayan peaks were visible from the principal trigonometrical stations of this series, and were fixed by measurement with the great theodolite. The heights of 79 peaks were fixed, and the highest of them all, 29,002 feet above sea level, was named by Colonel Waugh, in tribute to his old chief, Mount Everest. The North-East Himalaya Series covered an area of 15,826 square miles, exclusive of the operations of the mountain-peaks in Sikkim which covered 73,920 or a total area of 89,746 square miles.

Colonel Waugh next conceived a project for forming a gridizon of triangulation to the vests and of the Gold Arc Series including all the then newly-acquired territory in Seinde and the Punjab Colonel Waugh's plan commenced with the Great Arc Series having the Dehra Dun base at the north and the Series having the Dehra Dun base at the north and the Sering base at the couthend. From the Dehra bases a North-West Himilaya Series vas to be extended to near Attock where a ne-base was to be measured as hile from the Sironj base the line of the Calcutta Longitudinal Series vas to be extended to Karachi, to be called the Great Longitudinal

Series (Western Se. M Karachi tion) another bases as to be meisured and a Great Indus Series was to form the western side of the quadrilateral Fin ally a set of inter mediate Meridional Series vas to complete the gridiron Work vas commenced in 1847 with I ongitudinal the Scries from the tvo bases at Dehra Dunand Strong and the whole project was nearing completion when Colonel Wrugh retired from the service in 1861 Previous to this hovever, on the completion of the measurement of the Karachi base the survey of Cashmere and the mountains up to the Tibetan Frontier vas taken in hand in 1855, under the superintendence of Captain Montgomerie, who commenced work in the spring of that year with a 14-inch theodolite The Cashmere Series origin ates from that of the





THE NAGLE OBSERVATION TOWER
Freeted for the purpose of the Great Trigonometrical Survey of India

above the sea Between 1855 and 1861 the triangulation was extended over 93,500 square miles. This most difficult and laborious survey is remarkable for its accuracy, and in a circuit of 890 miles, only a discrepancy of eight-tenths of a second in latitude and of one-tenth of a second in longitude was found. In the Cashmere Series the topographical filling in by plane table advanced with the triangulation, both being under Captain Montgomerie.

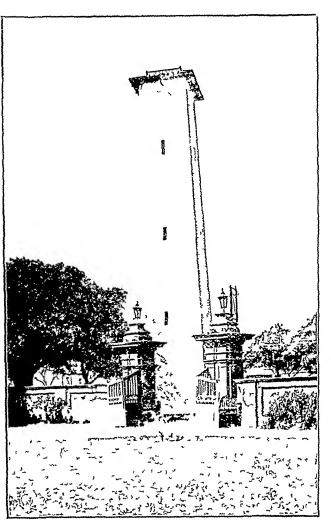
Colonel Waugh became a Major-General and was

knighted in 1861, in which year he retired from the service He had pushed forward the great work with such ability and energy that his successor could see his way to its completion within a specified number of years On the retirement of Sir Andrew Waugh, the two offices of Surveyor-General and Superintendent of the Great Trigonometrical Survey were once more separated Colonel Thuilher becoming Surveyor-General, while Colonel Walker was appointed Superintendent of the Survey in March, 1861 Colonel Walker's first work was the completion of the Great North-Western Gridiron, and the execution of sixteen principal series of the gridiron, and the complete revision of the Great Arc practically brought the main triangulation of India proper to a close The whole this triangulation rests on ten base lines, of which five are in the Great Arc Series and the others at Karachi, Attock, Sonakhoda, Calcutta, and Vizagapatam Under the guidance of Colonel Walker the Vizagapatam, Bangalore and Cape Comorin base

ines were remeasured, while portions of the Great Arc and of the Calcutta-Karachi I ongitudinal Arc were revised Colonel Walker was also largely responsible for the initiation of the pendulum, longitude tidal, and levelling operations. It was in 1864 that Walker first applied to the Secretary of State for India for sanction to undertake a series of pendulum experiments in connexion with the Great Trigonometrical Survey, and his application was strengthened

by opinions from several of the most eminent Fellows of the Royal Society in favour of the undertaking, more especially as affording an independent check on the local variations in the direction of the force of gravity, and on the disturbances due to the mountain masses north of India. The necessary sanction having been obtained, the Royal Society lent for the purpose of experiment an astronomical clock and two invariable pendulums, and this equipment was supplemented by a copper vacuum cylinder and an air

pump The apparatus arrived in India in 1865, and the work was at commenced by once Captain J P Basevi RE who had been placed in charge of the operations In the course of the next five years Captain Basevi swung the pendulum at nineteen stations of the Indian Arc from Dehra Dun to Cape Comorin, at two stations on the East Coast and at two on the West Coast of India and he also swung them at Minikoy, an island of the Laccadive group In 1870, two convertible pendulums, which had already been used on the Russian Arc, were lent to Colonel Walker by the Imperial Academy of Sciences at St Petersburg, and it was hoped that by their means a connexion might be established between the Indian and Russian pendulum operations One fact of great scientific importance was ascertained by these experiments, namely, that the density of the strata of the earth's crust under and near the Himalayas is less than that under the plains to the south It was also a noticeable feature of Captain Basevi's



OBSERVATION TOWER BARRACKPORE ROAD, CALCUTTA

observations, and one that had been already observed in comparing pendulum observations made in other parts of the world, that at inland stations gravity appears to be in defect of that observed at coast stations in similar latitudes

The superintendence of work in the field only formed a part of Colonel Walker's anxious and absorbing duties. The labours in the computing and drawing office also required his close attention, more especially

when, the main triangulation having been completed, the time had arrived for the dispersion of unavoidable, though minute errors in the observations of latitudes, longitudes, and azimuths, in such a manner as to obtain the closest approach to accuracy This was a consideration of great intricacy and delicacy preliminaries for eventual calculations were carefully elaborated in the Computing Office, and the deduction of the work as a whole entailed the most elaborate calculations that have ever been undertaken in geodesy All the observations were reduced de novo, and at last an accurate knowledge of the factor of expansion of the standard was the one thing wanting to permit of the final reductions of the base lines being taken in In 1866-67 Colonel Walker, with Mr Hennessey,

was engaged in the verifica tion of the standards, and in 1870 the whole of the reductions were completed. The details of the operations form part of the first volume of Colonel Walker's "Account of the Operations of the Great Trigonometrical Survey of India"

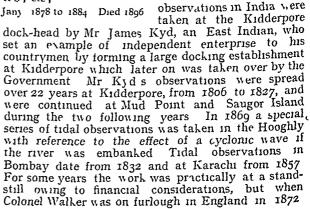
Colonel Walker retired in 1883, and by that year the principal triangulation had been carried down the coast of Burma, and an eleventh base line had been measured at Mergui triangulation is still in progress, and its extension northward became necessary after the annexation of Upper Burma in 1886 But the older instruments have been replaced by others more suited modern requirements, for the introduction by mechanical means of superior graduation in instruments of the smaller class has placed it within the reach of surveyors to effect equally and with less expenditure

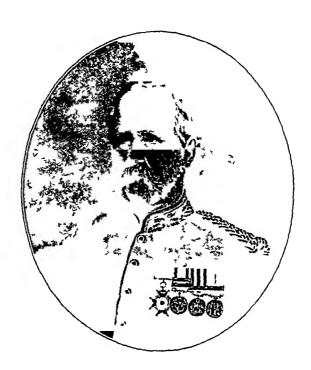
on equipment and on the staff necessary for transport in the field, than was formerly found necessary. The large 36-inch theodolites have given place to the lighter and more modern 12-inch instruments, for the 12-inch theodolite of the present day, with micrometer adjustments to assist in the reading of minute sub-divisions of angular graduation, is found to be equal to the old 24-inch or even to the 36-inch instrument of forty years ago. A Magnetic Survey of India and Burma has also just recently been completed. This survey was initiated in 1897 by Professor Rucker, r.R.s., through the Royal Society, but work was not commenced until 1901. Observations of dip, declination, and horizontal force were taken at stations

that were, on the average, forty miles apart, while self-recording magnetographs have, been established at Dehia Dun, Barrackpore, Kodaikanal and Rangoon, and the Magnetic Observatory at Colaba is co-operating

Before closing this branch of the subject of survey operations in India, some allusion must be made to the Tidal and Levelling operations instituted in 1856 by Colonel Waugh for the purpose of determining the height of the base lines in the interior. These had, however, already been approximately measured by vertical observations between the principal stations, and had been referred to Lambton's datum, the sealevel at Madras. It became necessary to check the results of the observations by vertical angles by ins-

tituting a series of levelling operations, and the earliest work recorded was the connexion of Karachi with the Attock, Dehra, and Sironi bases When Colonel Walker succeeded Colonel Waugh, he continued to push forward the operations In 1862 two hundred and forty-two miles had been completed up the valley of the Ganges, and an the follow ing year the operations had extended as far as Allahabad, and Captain Trotter, who was then in charge of the operations, found the levels of railway officials to be very inaccurate Since that time lines of levels have been carried along the principal rail ways and roads throughout India, and are still in pro-In recent years gress levelling operations have been combined with tidal operations, and with regard to these latter, the recorded tidal earliest





General J T WALKER, CB, ROYAL (late Bombry), ENGINEERS FRS, etc.,

good results more rapidly Surveyor General of India, from Jany 1878 to 1884 Died 1896

his attention was drawn to the tidal investigations which were being barried on in England under the superintendence of a Committee of the British Association, and he suggested that when the tidal operations were resumed in India, their scope and object should be enlarged, and that they should be carried on in such a manner as to contribute towards the attainment of a better knowledge of the laws of the tides. In compliance with Colonel Walker's suggestions, one of his officers, Lieutenant Baird, R E, was deputed to study the practical details of the method of tidal registration and the harmonic analysis of the observations, as conducted by the British Association. A new tide gauge was adopted

registering anemometer and s e l f-registering aneroid barometer were constructed to accompany each tidal gauge, order that the direction and velocity of the wind and the pressure of the atmosphere might be recorded together with the tidal levels Thus all the necessary instrumental appliances for the investigation of tidal

phenomena

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SURVEY OF INDIA ECLIPSE PARTY AT DUMRAON, Jany 1898

This represents the Survey of India Eclipse Party at Dumiaon, Juny 1898. The Party consisted of Mr. Pope (at the instrument) assisted by Mr. Haward, who made the exposures, and the late Mr. Theakston, who was responsible for the clock. The photograph was taken during one of the rehearsals

were made available in India for simultaneous observations at six independent stations. On his return to
India, Colonel Walker deputed Lieutenant Baird to
make a reconnaissance of the coasts of the Gulf of
Cutch with a view to selecting tidal stations. The
first series of observations was completed in 1874,
and from that year dates the systematic record of
results attained. The tidal observations not only
afford data for calculating the rise and fall, thus
enabling a datum to be fixed for survey purposes, but
they are of scientific interest generally, apart from
their practical utility. The first series of observations
taken established the fact that the mean sea-level of
the Gulf of Cutch was higher by 7 inches at the head

of the gulf, and by 4 inches half-way up, than at the mouth. At the present time the tidal stations extend right round the coasts of India and Burma, and up to the Red Sea

THE TOPOGRAPHICAL AND REVENUE SURVEYS

The initiation of detailed topographical surveys, based on triangulation, is due to Colonel Colin Mackenzie, one of the most indefatigable surveyors and persevering collectors of information that ever served India Mackenzie commenced his exploring labours shortly after the conquest of Mysore by the British, and early in the nineteenth century he was conducting the Mysore Survey, his system of triangula-

tion being altogether independent of that of Colonel Lamb ton The results of his labours in Mysore were a topographical survey embrac ing 40,000 square miles, one general and seven provincial maps, and a valuable Memoir in seven folio volumes, containing besides the narrative of the survey, much carefull y digested statistical, historical, and antiquarian in-

formation In 1809 Colonel Mackenzie became Sur veyor-General of Madras, and subsequently Surveyor-General of India, but his surveys formed only a por tion of the stupendous labours of Mackenzie He devoted himself to the study of Indian antiquities and visited every place of any interest, from the Kistin to Cape Comorin, accompanied by a staff of assistants, copying and collecting records Our present knowledge of the literature and early history of Southern India is largely due to the Mackenzie MSS

The topographical survey of the Portuguese territory of Goa was commenced by Lieutenant Garling in 1811, and this was followed in 1813 by work in Soanda and Bilgi, in North Canara, the topographical survey of

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In 1807 Dr Bucha-

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Sounds being founded on the base measured near Gos, whence a net of trangles was extended over the new country, and united with the stations of I imbton's Trigonometrical Survey Work in the other districts of South India followed in due course, and by 1830 the full material for a map of the vhole pennsula of India south of the Kistna based on Lambton's Great Irigonometrical Survey, had been furnished

While work was thus being vigorously pushed forward in the South the Surveyors in the northern part of the country had not been idle, though their somewhat desultory nature In 1800

The Revenue Surveys vere commenced in the North-West Provinces in 182 n and were undertil en mant Vith 1 vies to forming a settlement for the Ind rectine, and the correct delineation of boundaries of Court, and the contest arranging or poundaries of the state of the state of more importance than red Title topographical detail a hile appointment of execution Tite topographic is accurate to mice appears of executing their than good mapping to the object of the Tuner than Roba in apping the same object in the survey of the Scientific Survey Lud down on a survey of the surve Surveyor the Scientific divers the down on a scientific for the mile the village boundaries and the main geographical features of the country the Native Survey consisted of a rough plan of the village and fields, ind t list of the their

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Lieutenant Wood had made an elabor ate survey of the Ganges from Hud war to Minhibid and in 1808 (olonel Colebrooke who was Surveyor-General at Cilcutta from 1803 until his death in 1810, resolved to complete the examsacred river from source But while he was preparing to set out, Colonel Colebrooke was seized with a fatal illness, and the execution of the project devolved both the Kevenuc on Captain Webb, ind the Topographiwho was accom-panied by Lieutencil Surveis dites It that time Sir ants Raper and Indrev Waugh held the combined posts They surveyed the course of of Superintendent of the Ganges from the Irigonometrical Survey and Sursource at Gangotri, Vevor-General Major Thuillier became his Deputy in the General's The most interesting and valuable of the Topographical Survers executed in Sir Indrew Waugh's

The equatorially mounted Camera used in photographing the Corona in the Total Eclipse of the Sun by the Survey of India party under Mr Pope

Lord Hastings make a statistical make a statistical survey of Bengal, with an account of the condition of the people, their resources, agriculture, and productions After the termination of the war with Nepal in 1815, Lord Hastings appointed Captuin J. A. Hodgson Herhert to survey the mountainous After the termination of the war with Nepal in and Lieutenant Herbert to survey the mountainous regions between the Sutley and the Ganges Captain Webb from 1815 to 1820 continued the survey of the province of Kumaon, and operations were further Carried on in various parts of the country, including Sylhet, the Sunderbunds, Central India and Bombay

referred to, and as previously explained, the Topoeries work on the graphical Survey proceeded together with the main tringulation, and both were under the superintendence of Captain Montgomerie The filling in was evecuted by the plane table on a scale of two miles to the inch for the valley, and of four miles for Ladak and the Series was completed, and after ten years of uninter It the close of 1864 the Cashmere rupted labour in Cashmere, Montgomerie went home

time were those of Cashmere and the Sind Signr Doab, under Montgomerie and Robinson res-Trigonometrical Survey in Cashmere has already been

on leave, and Lieutenant Carter received charge of the party, which was sent to commence a topographical survey of Kumaon and Gurhwal, on a scale of one inch to the mile, with a survey of the tea plantations and of the stations of Mussoorie and Landour 1867 Montgomerie returned to India and resumed his work, conducting the Kumaon and Gurhwal survey, and executing a specially accurate survey of the hill sanitarium of Ranikhet Montgomerie was senior Deputy Superintendent of the Great Trigonometrical Survey when he retired in 1875, with the rank of Colonel the work for which he is most generally known among geographers is that comprised in his system of employing native explorers to make discoveries in the unknown regions beyond the northern frontiers of British India

Captain Robinson's work comprised a complete survey of the whole highland country of the Sind Sagar Doab between the rivers Indus and Jhelum, and from the nature of the country this was a task of The area comprised 10,554 square great difficulty miles, and the cost of the survey was nearly two The regions traversed witnessed lakhs of rupees some of the exploits of Alexander the Great, and included the site of ancient Taxila, the burial place of Bucephalus Here, too, was the line on which India had been invaded from the days of Alexander to those Between 1849 and 1853, Lieutenant of Nadir Shah Walker, the future successor of Sir Andrew Waugh, executed a military reconnaissance of the Trans-Indus region, from Peshawar to Dera Ismail Khan, single-Rapid progress was made with Revenue Surveys under Sir Andrew Waugh, by Blagrave in the Jullunder Doab, Gastrell in the Sunderbunds, O'Donel in Aracan, and Van Renen in Nagpore One important object of the Revenue Survey is to fill up the outlines fixed by the Great Trigonometrical Survey, and to put sinews and flesh on the skeleton constructed by that survey The method of procedure was as follows -The settlement officers marked the boundaries of the pargana, and furnished the surveyor with a rough sketch demarcation map, called thak-bust With this map men went round, fixing the stations and clearing the ground for measure-The surveyor then ran a line from station to station, as near to the boundary as possible, entering every measurement in a field book, and parties of village boundary surveyors did the same with the villages The field measurements by natives were checked by the general survey, and the physical details were filled in by the plane table. It will thus be seen that the Revenue or Cadastral Survey, on which the work of the Settlement Officer is founded, is the basis of our system of administration, and in every province in India, with the exception of Bengal, there now exsists an elaborate machinery extending its ramifications into village, for the purpose of maintaining an accurate record of the rights and habilities of all classes of the agricultural populations In the greater part of Bengal nothing of the kind exists There has been, until recently, no Cadastral Survey and no record of agricultural rights but within the last 15 years these have been introduced throughout North Behar, and in

the greater part of Orissa, as well as in parts of other districts and in estates under Government management Under the arrangements of the Permanent Settlement in Bengal, the Government has no anxiety about the collection of its land-revenue. The systems of settlement in the other provinces vary somewhat, but under one system or another, Cadastral Surveys have been made and registers of rights and possessions have been prepared, which, notwithstanding inevitable imperfections are probably as complete as those that exist in any other country Much in the existing land-revenue system of Northern India is due to the Emperor Akbar, and it assumed almost its present form under the East India Company the improvements that have since been introduced having only followed the creation of separate departments for the control of this branch of the administration From 1857, when the Revenue Survey of Madras was commenced by Captain Priestley, the Superintendent of the Madras Revenue Survey, the Madras Presidency has continued to maintain a survey department of its own, whose work has been generally based on Lambton's triangulation and carried out on the main circuit system of traversing. The Bombay Revenue Survey is considered the most perfect for revenue purposes The careful elaboration of the original design of the Bombay system is due to Sir George Wingate, and his labours, extending from 1836 to 1866, resulted in the admirable system of administration which proved so efficacious in promoting the revival of agriculture in the Presidency first Revenue Survey of the Punjab was organised soon after the annexation of the country, and was conducted by the settlement officers with the aid of native village officers The Patwari, who in the Punjab tool the place of the Hindustani Amin, was in 1852 supplied with instruments with a view to his making a native hud bust map and outline sketch of the village bound-A professional survey, working independently of the Patwaris, fixed the boundaries of villages and inserted interior details, but did not measure the fields Revised settlements were taken up in 1863 since when a great advance has been in the native system of conducting a Cadastral Survey of fields, and more scientific results have been attained, both in the measurements and in the maps

In the United Provinces the Cadastral System is the Patwari system, with its advantages, but without its drawbacks, as the work was controlled and supervised by Survey of India officers and was based on a scientific survey executed by Survey of India parties, and the 16 mile plans were surveyed and drawn with a view not only to revenue, but also to topographical requirements, the resulting maps being very fair topographical maps. The Bengal system is not a Patwari system, and is consequently very expensive

Measures are now being taken to organise a revisionary survey over the whole of India and Burma, for the purpose of bringing the existing maps up to date. In 1904 a Committee was appointed to report on the state of the maps in each Province, and the means to be adopted to bring them into line with modern requirements. The Committee submitted its report in the following year, and among the more important

recommendations were —(1) That the preparation of a modern map of India on the scale of one inch to the mile should at once be undertaken according to a definite programme, by which fifteen topographical field parties would be employed and the whole work

would be completed in twenty-five years, and fur ther, that the scale of the survey should be at least double that of publication (2) That for the production of this map an improved process of helio-zincogra physhould be employed a few selected stand ird sheets being engraved on copper (3) That the Atlas of India sheets should be superseded by degree 'sheets on the quarter-inch scale, to be engraved on copper (4) That, in place of the one-sixteenth inch Provincial maps, a general map of India on the international scale of I 1,000,000 should be prepared and engraved (5) That the staft of the Imperial Service for trigonometrical and topographical work should be increased from forty to seventy officers (6) That in place of the existing Provincial Ser vice, a new Provincial Service should be estab

lished on better pay, and another Service formed intermediate between this and the present Subor dinate Service, one quarter of the appointments in the former and one-half in the latter being given to natives of India (7) That cadastral and other large

se de surveys should be left entirely under the control of Local Governments, who should provide for the expense of the work and also for the production of the maps (8) I hat village boundaries should not be shown on the ordinary topographical maps but that if

these are required for ad ministrative purposes, a special edition showing them should be issued under certain conditions (9) That the cost of special forest surveys, when required, should be debited to the Forest Department

In July, 1907, a Con ference of administrative officers was held at Mus sooric, and one of the subjects discussed vas the handing over of the triangulation and traversing v ork, v hich had been done by each party of the Topographical branch to the Trigonometrical branch The existing si stem 1135 considered unsatisfictors mainly because the vork 175 often conducted on unscientific principles, which interfered scriously with the Topographical out it never while turn, being per harmonised formed under so many executive and adminis



Colonel I B Toxer R1, Surveyor General of India from 1994

trative officers It was therefore decided that, though the present system must continue temporarily a scheme should be drawn up to strengthen the Tryponometrical at the expense of the Topographical



Education in India.

The modern history of education in India dates from the famous despatch of 1854. This state document first constituted upon a modern basis a state system of organised public instruction. Previous to 1854 much had been written and not a hitle had been done. The controversies which in every country wrap up any large movement of education, to some extent nourishing it and to some extent holding it back, were

free and abundant in India before 1854, but they were controversies of educational ideals rather than contro versies of conflicting systems In fact, of instruction there were no systems of in-The British had struction succeeded to none when they came to India, and it was long before they were free to consider educational ques-Not that India tions at all was an uneducated country, far from it From a remote antiquity it has possessed scats and traditions of learn ing Hindu pundits and Mohammedan maulus from the earliest times gathered pupils round themselves, or set up schools of religion, law and philosophy Nobles, landowners and wealthy men employed teachers for their sons and admitted the sons of their neighbours of their own social standing to the benefits of instruction But all instruction was connected with religious training, and was limited in practice by barriers of caste and social privilege The notion of popular instruction, alien to the traditions of the East, was introduced by Christian missionaries in the nineteenth century The historian of

the future may perhaps regard it as the most decisive event, after the establishment of the Empire, in

that century

Some account must be given of the first efforts of the British in the educational development of the country For many years nothing was attempted. In the disorders and embarrassments of establishing the Empire, there was little time or occasion to think of education

Ind ed, the authorities generally regarded it in the light of a dangerous innovation, and an attempt by Mi Wilberforce to add two educational clauses to the East India Company's Charter Act of 1792 AD, was defeated. The Calcutta Madrassa was founded in 1781 AD, and the Sanskrit College at Benares ten years later but these institutions had a special rather than a general educational object aiz, to train for the

I ARL OF MINTO Viceroy 1807-1813

public service persons qualified to interpret Mohamedan and Hindu Law To Lord Minto must be ascribed the credit of introducing larger and more liberal views of general education. In a minute written in 1811 this calightened Governor General put forward the broad proposition that the ignorance of the people was obstructive to good governand conducive to ment This doctrine fell on soil that was ready for it The activity of the mission aries had paved the way, the market value of an English education for Government employment had become obvious, and the ide is in England had undergone slow change In the East India Company's Charter of 1831 AD a chuse was inserted directing the expenditure of £10,000, or one lakh of rupees per annum on "the revival and improvement of literature, and the encouragement of the learned natives of India and the introduction and promotion of a knowledge of the sciences among the inhabitants of the British terrim India '' tories This reform found the Indian

Government engaged in a war with Nepal, and no definite policy was adopted at the time. The foundations of modern education in India were laid about 1823. A D, when a Committee of Public Instruction was appointed, and the choice of the main line of advance came gradually under discussion. Ideas hitherto floating about in occasional talk and isolated decisions of disputed points were slowly

precipitated into the definite issues of a big political controversy

Two schools of thought arose, the Orientalist and the Anglicist The former sought to teach the literature of the East and to convey the science of the West through translation into the classical languages of the East The latter sought to spread Western science through the medium of the English language The controversy became more and more acute, and for some years it paralysed the work of the Committee of Public Instruction Eventually it was settled by Lord Macaulay's famous minute, dated 2nd February 1835, in favour of the Anglicists In that minute he wrote the following memorable words—

"How stands the case? We have to aducate a people who cannot at present be educated by means of their mother-tongue We must teach them some foreign The claims of our own language it is hardly langu ige necessary to recapitulate It stands pre-emment even among the languages of the West It abounds with worls of imagination not inferior to the noblest which Greece has bequeathed to us, with models of every species of eloquence, with historical compositions, which, considered merely as narratives have seldom been surpassed, and which, considered as vehicles of ethical and political instruction, have never been equalled with just and lively representations of human life and human nature with the most profound speculations on metaphysics, morals, government, jurisprudence, and trade with full and correct information respecting every experimental science which tends to preserve the health, to increase the comfort. or to expand the intellect of man Whoever knows that language has ready access to all the vast intellectual wealth which all the wisest nations of the earth have created and hoarded in the course of ninety generations It may safely be said that the literature now extant in that language is of far greater value than all the literature which three hundred years ngo was extant in all the languages of the world Nor is this all In India, English is the together language spoken by the ruling class It is spoken by the higher class of natives at the seats of Government It is likely to become the language of commerce throughout the seas of the East It is the language of two great European communities which are rising, the one in the South of Africa, the other in communities which are every year becoming more important, and more closely connected with our Indian Empire Whether we look at the intrinsic value of our literature or at the particular situation of this country we shall see the strongest reason to think that, of all foreign tongues, the English tongue is that which would be the most useful to our Intire subjects

"The question now before us is simply whether, when it is in our power to teach this language, we shall teach languages in which by universal confession there are no books on any subject, which deserve to be compared to our own whether, when we can teach European science, we shall teach systems which, by universal confession, whenever they differ from those of Europe differ for the worse and whether, when we can patronise sound philosophy and true history, we

shall countenance at the public expense, medical doc trines which would disgrace an English farrierastronomy, which would move laughter in the girls at an English boarding school-history abounding with kings thirty feet high, and reigns thirty thousand years long—and geography made up of seas of treacle and seas of butter "-And Lord Macaulay proceeded to cite as illustrations the revival of letters through the media of the Latin and Greek languages and the educa tion through the French language of the higher classes The illustrations were not really apposite The battle, indeed, was fought upon the ground of literature and science, but the real issue was between two antagonistic civilisations, the issue which has confronted every imperial race in the government of civilised subject peoples —which shall prevail, the ideals of the conquerors or the ideals of the conquered? Seventy years ago this issue was decided clearly by the authorities, time alone can show whether the decision will be accepted as final by the people themselves

The necessity for elementary vernacular education was not altogether overlooked, although the theory that education must filter downwards held the field In the North-Western Provinces the Lieutenant Governor, Mr Thomason, maugurated a system of elementary vernacular schools supported or maintained by a local cess contributed by the landowners In Bombay, thanks mainly to the impetus given by Mountstuart Elphinstone, vernacular schools had been opened, the cost being borne partly by the Government and partly by the people these schools were developed and a system of inspection was commenced In other provinces indigenous schools received mild encouragement in different ways but generally more attention was given to higher education. Indeed, at that time there was little demand by the people themselves for wide-spread instruction in their own language, and the attempt to place educational facilities before them let loose the wildest rumours of sinister designs against their children wholesale conversion to Christianity, and even wholesale slaughter of the innocents were imputed to the Government as the dark design behind and beneath its avowed but strange benevolence

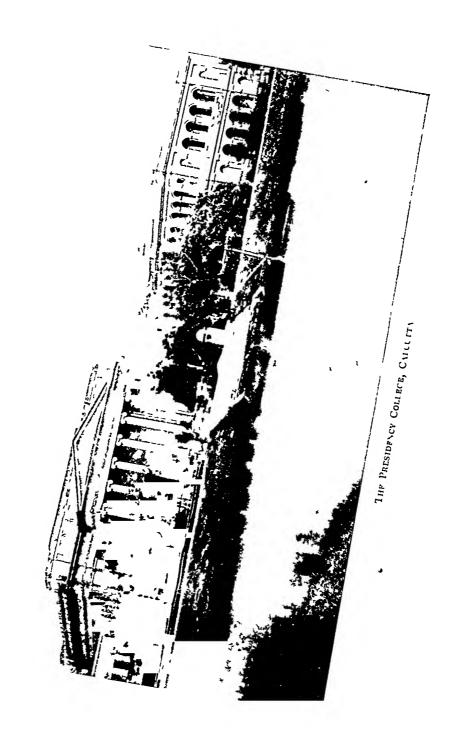
As already stated, the despatch of 1854, which is associated with the name of Sir Charles Wood, afterwards Lord Halifax, is the magna chrita of Indian Education This celebrated state paper called the special attention of the Government of India to the necessity of spreading and improving popular education, whether in English or vernacular, and to the importance of 1 useful and practical form of education for the masses of the people. The chief recommendations were —

(1) to constitute a department of public instruction in every province,

(2) to found universities at the Presidency towns,
 (3) to establish institutions (training colleges and normal schools) for training teachers of every grade,

(4) to maintain existing Government colleges and high schools, and where necessary to increase their number,

(5) to establish new middle schools



(6) to develope vernacular schools indigenous or other,

(7) to support female education

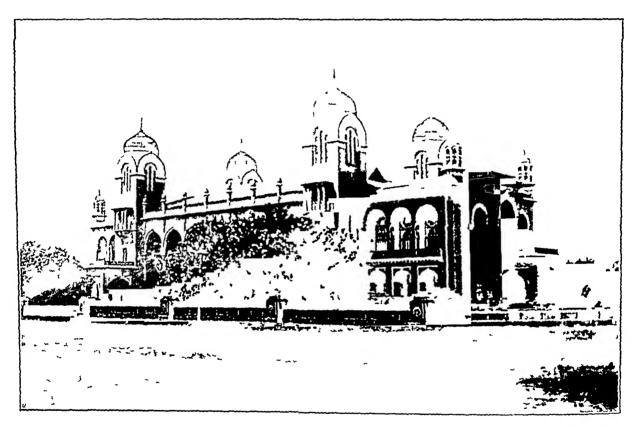
(8) to make English in the higher, and vernaular in the lower branches, the medium of instruction

(a) to start a comprehensive system of scholarships connecting lower schools with higher

to give preference in making appointments for Government service to persons possissed of educational qualifications

The greatest innovation was the system of grants-in-aid. This system was to be based on the principle

There was no histation in India in giving effect to the progressive policy prescribed from Liurland. Departments of Public Instruction were organised universatics were established at Calcutta Bombay and Madras, the grant-in aid system was started and advance was made all along the line. The events of the mutiny did not shale the balled of the authorities in the advantage of widespread education rather they served to confirm that belief but the heavy expenditure involved in quelling the disturbance and restoring order in doubtedly retarded the rate of progress. In so far as higher or Linglish education is a concerned the enthusiasm of private enterprise came to the rescue and so



THE SENATE HOUSE, MADRAS

Philo by Hingirtelliar & C

of religious neutrality, the conditions of a grant being that the institution should charge fees, be properly managed and be inspected by a Government Inspector on whose reports the continuance or modification of the grant would depend. Government institutions were not to clash or compete with aided institutions, indeed, it was in contemplation that the former should gradually make way for the latter. "The discontinuance of any general system of education entirely provided by Government, is anticipated with the gradual advance of the system of grants-in-aid, but the progress of education is not to be checked in the slightest degree by the abandonment of a single school to probable decay."

directly bore witness to the wisdom of the policy of 1854 but the demand for elementary vernacular instruction was still feeble or non-existent, and private enterprise was impotent in this field of effort. Accordingly it became necessary to impose local taxation for local schools, and local taxation fell upon the land in the shape of a cess calculated as a small percentage on the land revenue and collected with it. Between 1865 and 1871 various enactments were passed in different parts of India throwing upon the agricultural population some part of the cost of their education. The burden was light and the resultant progress was satisfactory. But the educational needs of the country

began to grow faster than the means of supplying them and the growing ideas of Local Self-Government suggested new ideas as to educational machinery tion between Government and private enterprise had not everywhere been satisfactorily adjusted, and the tendency to stereotype forms of educational effort had been encouraged by departmental action the Central Government had, since the decentralization reforms of 1871 lost touch with the movements of education in the provinces For these reasons, and more especially to introduce greater elasticity and to stimulate private enterprise and popular interest in the work, Lord Ripon appointed a Commission in 1882, to review the position and gather up the experience of a generation for a big move forward of university education, technical education and the education of Europeans were excluded from the scope of the enquiry as having been or about to be separately The questions under consideration, but otherwise the Commission were invited to examine all the educational problems of the day in the light of the policy already indicated It is the desire of Government, so ran the resolution appointing the Commission "to offer every encouragement to native gentlemen to come forward and aid even more extensively than heretofole in the establishment of schools upon the grant-in-aid system and His Excellency in Council is the more anxious to see this brought about, because, apart altogether from the consequent pecuniary relief to Government, it is chiefly in this way that the native community will be able to secure that freedom and variety of education which is an essential condition in any sound and complete edu-

The notion of developing the grant-in-aid system led naturally to proposals for withdrawing by the State from the maintenance of institutions in favour of management by private bodies Such proposals excited much opposition in different quarters on the ground that in the then existing stage of educational development they would involve the surrender of State institutions of a secular character to missionary enterprise In the result the proposals were so hedged about by conditions that the carrying of them into effect was rendered well mpossible Generally the Commission re-iffirmed nign impossible Generally the Commission re-unrined the principles laid down in the desprtch of 1854, particularly in the principle of self-help in higher or more liberal provision for primary vernacular instrucmore liberal provision for primary vernacular instruction by provincial Governments and local bodies the latter they assigned a more important function in the control of, or rather influence upon, education, than they had hitherto possessed courses was also advised were also made for the education of backward commu-Some variety in the nities generally and of the Mohammedans in Particular Special recommendations The recommendations were adopted by the Government and formed the basis of much correspondence and some Practical reforms But the financial difficulties consequent on the fall in the exchange value of the rupee checked the development which might have been expected Excellent schemes were held up for want of funds or pruned away and introduced without enthu slasm The schools under the direct management or responsibility of the department naturally received the

lion's share of the funds available in-aid system was starved, and a feeling of discontent and rivalry grew up which has not yet been finally allayed, even though the causes of it have been to some extent removed. Vany if not most of the educational traced to the And so the granttroubles of recent years can be directly traced to the penury of Government in the decade and more that followed the work of the Commission of 1882 sacrifice of the system to examination tests was a concession to economy which commended itself to a Government which could not find the money to pay for competent teachers, variety in subjects taught and proper control by inspection ture could efficiency be reached it was sought to tune up the system to a spurious kind of efficiency by multiplying examinations and tightening them up

When the financial position of the Government of India grew stronger, the public began to call with increasing emphasis for a larger expenditure on education pointed out, in the press and in the Council chamber that the expenditure on education in India compared unfavourably with the expenditure on education in any other Civilised country Lord Curzon attacked the problem with characteristic vigour He appointed a Commission to enquire into the working of Indian universities and he summoned a conference of educational experts to Simla The labours of the Commission ended in the passing of a new University Act. The labours of the Conference ended in a resolution on educational policy Both marked a distinct advance in educational matters and were supplemented and reinforced by liberal grants of money on a scale unprece-But perhaps no development has equalled in importance the appointment of a Director-General of Education Against this measure many powerful arguments were available and were put in use, but looking backward it must be admitted that few reforms have been more fruitful of results Mr H W Orange, CIE, the first Director-General has vanquished opposition by the invaluable services which he has rendered to the cause of education all along the line of the various reforms initiated during the last five years in the various reiorins muritien during the last tive years in the various provinces would fill a small volume and cannot be attempted here but some account must be An enumeration given of the present state and tendencies of the various lines of movement, and it will be convenient to begin at the top, because it is round the peak of higher education that energy has played most vividly, producing heat no less than light, and throwing the influence from above down through all the stages of instruction

The three older universities of Calcutta, Bombay and Madras were founded in 1857
Versities were established at Lahore and Allahabad the other institutions respectively, on the model of the other institutions Thanks largely to missionary enterprise, institutions of collegiate rank had existed for many years The opening and liberal course of education by conferring a regular and liberal course of education by conferring academical degrees as evidences of attainments in the different branches of art and science, and by adding marks of honour for those who may desire to compete for honorary distinction. The model followed was that of the University of London The function of the university was to affiliate colleges,

prescribe courses of study, examine candidates who had complied with rules as to attendance and study laid down by the university, and confer degrees as the results of such examination. The teaching was to be done in the colleges dispersed over the country, and the examination by the university—a central body consisting of the Chancellor, Vice-Chancellor and Fellows. Most of the work of the university has always been done by the Syndicate and Faculties or Boards of

Studies, but the Senate has always had the power of overruling the executive bodies carved out of 1t In the course of time the Senates grew unwieldy in size and difficult educational questions came to be discussed in assemblies not always qualified tounderstand them Abuses grew up mevitably under a system subordinated to written examinations, with a large class hungry for Government service on the pass port of examination results, and with colleges under-staffed for want of funds The reforms under the new Universities Act contemplated the reduction of the size of the Senates and the due representation of educationalists on these bodies with at the same time a more popular system of election of fellows by graduates more careful me-

thods of affiliation, the regular inspection of colleges the constitution of university chairs, and greater freedom generally for the development of teaching universities. The London University had ceased to be a merely examining body, and it was felt that the Indian universities suffered from too strict an adherence to their original model. The difficulties in the way of teaching universities of the European type in India are great, but a beginning has been made, and grants of money

were allotted with a view to putting the universities and colleges in funds to attain a higher degree of efficiency. In the colleges the most important consequences of the new act and the regulations made under it have been the separation of schools from colleges where hitherto they had been combined, the development given to the system of residence in hostels, and above all the stimulus given by regular

inspection



THE UNIVERSITY LIBRARY AND CLOCK TOWER BOMBAY

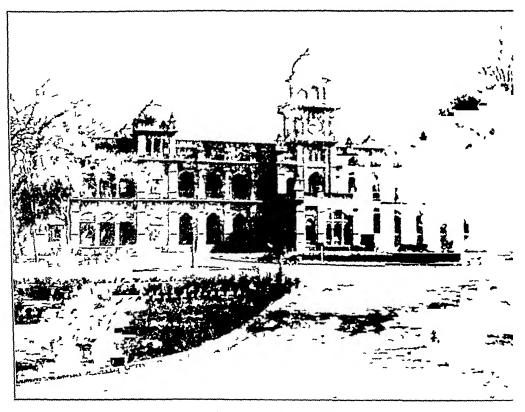
The Universities Commission paved the vay for farreaching reforms in secondary edu cation in bringing forward promin ently to notice the necessity for 1 system of proper recognition of Secondary English schools Secondary schools, properly so called include every thing above the primary stage, and therefore include higher vernicular schools But for the most part they are English teaching schools preparing for colleges There can be little or no improvement in the te iching at the colleges until students come to the colleges adequately prepared If the teaching in the colleges has been bad, teaching in the schools preparatory for the colleges has been infinitely worse Nowhere has the pinch of poverty been more acutely felt There has been a great and

growing demand for English education, as the means of qualification for Government service and for a professional career leading in some cases to public life and to meet the demand schools inadequately equipped sprang up The policy of Government has always been to main tain a certain number of so called model schools, but the schools were in most cases far from model and they failed altogether to leaven the lump From a variety of causes, but principally poverty, the schools became

observers thinkers and experimenters in however humble amanner and will protect them in their business transactions with the landlords to whom they pay rent and the grain-dealers to whom they sell their crops

Those who seek more advinced instruction in their own tongue find it in the vernacular secondary schools. These schools carry instruction up to the end of the middle standard or half vay towards the complete high school course. From this stage boys often proceed to in English school. One of the difficult problems in Indian education is to decide at what point English should commence to be the medium of instruction. It is now generally agreed that English has often been commenced at too early a stage with results injuri

The trumme of teachers is now received tion which at deserves. Next to the adequate salaries for teachers at a the reform of all. Training colleges for secon and normal schools for primary teacher a are being improved in every province, a spaced to Leep them in touch with education of conditions of chools. Lemp the education of backs ard classes and the Lurope ins and Luriseius have all receive attention of the Government of Indi Governments and liberal grant have be their development, although not as yet to their need. On every side there



THE UNIVERSITY, I MORE.

ous to education, and it is sought to secure that all scholars should be properly grounded in the vernacular before taking up English. The principle was laid down in the despatch of 1854 that European knowledge should be gradually brought, by means of the vernaculars, within the reach of all classes of the people, and in order to give effect to this principle and to secure the consolidation of the educational system, it is necessary that the Indians who learn English should also be familiar with their own vernaculars. The dividing line has now been drawn broadly at the age of 13 Below this age instruction is almost entirely in the

idvance, and sounder educational ideal to be accepted

The opening of the twentieth century he the beginnings of a change which is alrest and is likely to affect even more probearings of educational questions in Indiverse there has been a decided movement with the educated classes, but spreading in the direction of technical education spicuous and influential result many contributed not the least being a reflection the West, acting upon an educated

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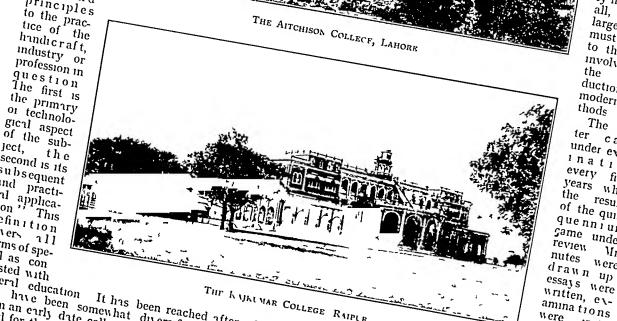
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industrial beginnings to political power For more than a quarter of a century the Government has preached the advantages of technical education to heedless ears, and now the tide has begun to turn There are many definitions of technical education, which indeed has many aspects, and there is an unmistakable tendency for them to grow broader every year The definition of the Simla Conference of 1901 may be accepted as sufficiently accurate and sufficiently c o mprehensive for the present purpose

adapted in any province to the requirements of special education There is a consensus of opinion that general education should precede and be the foundation of the superstructure of special education So long ago as the early eighties the Government of India adopting the recommendations of the Education Commission upon the point, insisted on the necessity of a bifurcation of studies at the high school stage and the introduction of a variety of subjects into the school

ran "techni- $\Gamma_{h_{1S}}$ education consists of (a) the study of the scientific methods and Principles underlying the practice backward provinces have scarce ly moved at all, owing largely must be said to the cost

THE AITCHISON COLLECT, LAHORE



THE L VILLAGE COLLEGE RAIPLE

tristed with general education It has been reached after efforts that have been somewhat diversified in character from an early date colleges or classes have been provided for the teaching of law medicine, and engineering truning colleges for teachers and agricultural ing training coneges for teachers and agricultural schools followed after an interval by degrees the engineering colleges took up mechanical and electrical work and expanded on other sides and so on but the I stem of general education has not yet been properly

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> ınstı not very clearly defined were laid on paper tuted the found; and tical step forward was taken by Lord Curron's Government in the institution of technical scholarships something for the study in England and America of industries existing or deemed capable of existing in India scholarships take the place of a sort of apprenticeship for intelligent individuals but they do not affect the mass who are interested in technical work. These can only be reached by adequate facilities for education

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Trade of India.

THE total trade of India in the year 1907-08 amounted to about Rs 36,150 lakhs The population is over 300,000,000, an increase, though checked by the plague, of over ten millions since 1891 the birth rate in 1906 was 37 8, the death rate 34 73 per mille the trade at present comes to Rs 12-0-9 per capita and it is increasing at the rate of over 61 per cent per annum, or nearly 121 annas per capita from this it is evident that an expenditure of one anna per capita per annum vould add Rs 1,87,50,000 or onehalf per cent to the present trade The gross revenue of India in 1906-07 was (in crores of rupees) 1134, the expenditure III o, leaving a surplus of 24 the net figures being 76 1, 73 7 and 2 4 respectively capital outlay was 164, and the debt on March 31, 1907, was In India 1304, in England 2213 Total 3517 On Public Works the receipts were 455 and the expenditure 45, including Interest on Debt, Railways , 1 1

of the inhabitants of the India world, who live on 3 per cent of the land surface According to Mr Gait, 147 distinct languages have been recorded as vernacular in the Indian Empire, while only I in I,090 speaks with a European tongue, in 1901 it was reported that only 252,388 returned English as their mother-tongue, and that 2 664 241 were of the Christian religion, mostly in the Madras Presidency and Hindustani is the lingua franca of India, Travancore and the understanding of English is slowly spreading from the centres where any Europeans are found About two-thirds of the population returned some form of agriculture as their principal means of subsistence 207 millions are Hindus the total number of Muhammadans is 621 millions or 212 per mille, and they form the following percentages in the provinces named — Kashmir, 74, Punjab 32, Bombay 18, and the United Provinces 14 per cent The very influential and generally wealthy Parsis who loom large in all Indian affairs, especially in Trade and Commerce, are only 94,000 in number, nearly all in Bombay and Baroda and, what is strange, they are not increasing rapidly in number, owing, perhaps in some measure, to the enterprise which causes them to settle abroad wherever there is any prospect of good business The three other principal religions are Buddhists, nearly all in Burma, Sikhs in the Punjab, and Jains in the Bombay Presidency

• India has an area of 1,766,597 square miles, of which 615 per cent is British and 385 per cent is under Native rule. The mean density of the population per square mile is 167, having increased 50 since 1872. Areas with a population per square mile of less than 200 form 755 per cent of the whole, and contain 346 per cent of the population the respective figures for areas of greater density being —200—400 per square

mile, 11 7 per cent of total area, and 19 7 of population 400 to 600 per square mile, 8 2 per cent of area and 197 per cent of population over 600 per square mile 47 per cent of the total area, and 215 per cent of the total population Only 99 per thousand live in towns, but the urban population is rapidly growing in India, as it is all over the world, for while the total population had only increased 24 per cent between 1891 and 1901, the urban population had risen by 73 As stated in the last census "the main cause of the phenomenon seems to lie in the large industries, such as cotton and jute mills, railway workshops, and the like, and the development of new trading centres which has been stimulated by the great improvement in communications that has taken place in recent years "There cannot be much doubt on this subject. The average rainfall is about 40 inches yearly and varies from 9 04 in Sind and Cutch to 173 34 in Tenasserim and even greater figures in the hills of Assam

RAILWAYS

Up to the end of March 1908 the Railway lines open measured 30,206 miles, and those under construction or sanctioned for construction, 2,516, or one mile to every 54 square miles and to every 9,000 inhabitants, and making about one-third of the mileage required to properly develop the country Except on the map accompanying the Administration Report there is no means of ascertaining the mileage of double line where there are more than two lines of way this fact is not noted at all The Total Capital Outlay on Railways at the end of 1907 amounted (in crores of rupees) to 401, and a permanent debt of 76 had been incurred on their account. The net earnings yielded a return of 5 77 per cent on the Capital Outlay to the end of December 1907 the percentage of working expenses being 51 38 The net gain of 5 77 per cent was yielded after meeting, in addition to the expenses of working, all charges for interest on Capital Outlay by the State, and on capital raised by Companies, and also the annuity payments for railways purchased by the State including both interest and the portion that represents redemption of capital, were the portion of the annuity payments representing redemption of capital added to the above surplus, the interest yielded would have amounted to 7 35 per cent As pointed out in the Administration Report for the calendar year 1907, from which the above figures are taken, "even this understates the real surplus derived from the railways open to traffic, as the interest charges include the interest on outlay on lines under construction, which, if these lines were constructed by private enterprise, would be charged to the Capital Account " What this item amounts to is not given in the Report Howver, the whole history of railways in India proves abundantly that they can be constructed and worked so as to yield a very handsome profit, and that any outlay in increasing the capacity of open lines, by adding rolling stock, and sidings to accommodate it, and by multiplying tracks to meet the demands of the traffic offering, would cause even the handsome profits made during the past eight years to sink into insignificance As stated by the Railway Board, "large additions to the rolling stock on a railway cannot be efficiently used unless additions to and improvements in open line works which are required to facilitate the effective working of the additional stock are also carried out " They have stated that the standard of equipment of Indian Rulways has not been maintained at a rate their development, and their commensurate with remedy for this is to cuitail expenditure on new lines, however much these new lines may be required, and by these means to find sufficient funds out of their grant to effect these desirable improvements display of financial impotence will, it is hoped, come to an end if some of the many proposals for raising the necessary capital are entertained by the Government and if the natives of India can be induced to invest some of their hoards (estimated at three hundred million sterling in gold alone) the problem would be

As pointed out by a correspondent of the London Times, 2,000 years ago the "Gorgeous East" had the reputation of storing up masses of unsunned gold and buried wealth. Even then a millionaire was apostrophized as—

Intactis opulentior "

"Thesauris Arabum et divitis Indie'

Habits of that sort are not to be altered in a day It is not for want of example. Not only Englishmen, but Jews and Parsis have shown that fortunes can be made in India. Probably the want of commercial courage, mutual trust, and consequent credit and capital, are due to the social condition of the country. Why, otherwise, has Bombay been more enterprising in industrial and commercial speculation than Bengal. But a beginning has been made. Not all the young Indians you see in London now are law and medical students. Some are learning the elements of business in manufactories and warehouses."

The establishment of co-operative credit societies is also working towards this end, as they rescue the poorer class of native from the village money-lenders, who will invest their capital (thus set at liberty) more and more in enterprises bringing less profit, but with better security. In fact they might deal to their advantage with village societies instead of with individuals. The capital of these societies rose from Rs 47 lakhs on March 31, 1906, to Rs 21 3 lakhs on June 30, 1907, the loan transaction on these dates being respectively Rs 36 lakhs and Rs 254 lakhs

Some further facts may be given showing the advantage of railways to the Trade and Commerce of India —305 89 millions of passengers were carried who travelled 39 miles on an average, and were charged 2 44 pies per mile, or just over one-fifth of a penny 62 10 million tons of goods were lifted in 1907, and car-

ried 175 miles on an average, and were charged 5 to pie per mile or 0 43d. The number of employees on open lines was 516,756, of whom 7,180 or 1 41 per cent were Europeans, 9,982 or 1 9 per cent Eurasians, and 499,594, or 96 7 per cent Natives. There were 7,140 children in the schools at the end of 1907, and 11,678 apprentices or workmen the East Indian Raily ay are inducing a better class to join their technical schools, with considerable success, and if this example were followed the spread of really usefu'.

POST OFFICE

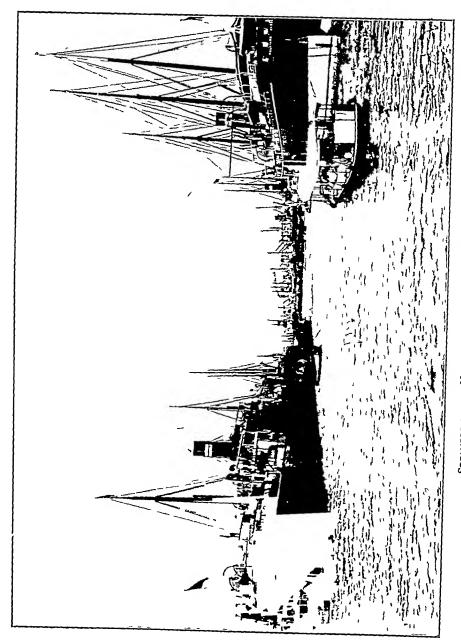
The Post Office brings in a net revenue (in lakhs of rupees) of 22 2, although the charges are the cheapest m the world The total number of articles received for delivery were 800 millions of which 95 06 per cent were delivered. The number of parcels exchanged with the United Kingdom was over 291 millions (their value is shown on Table II) and amounted to two-thirds of The business of the "Value Payable the whole traffic Post" continues to increase the number of articles sent were close on 6 million, and 65 o was recovered from the addressees, the commission on which was 94 The rate of Commission on Money Orders is only one anna on sums not exceeding Rs 5 and the money is handed to the payee at his house Quinine is sold at practically all post offices

TELEGRAPHS

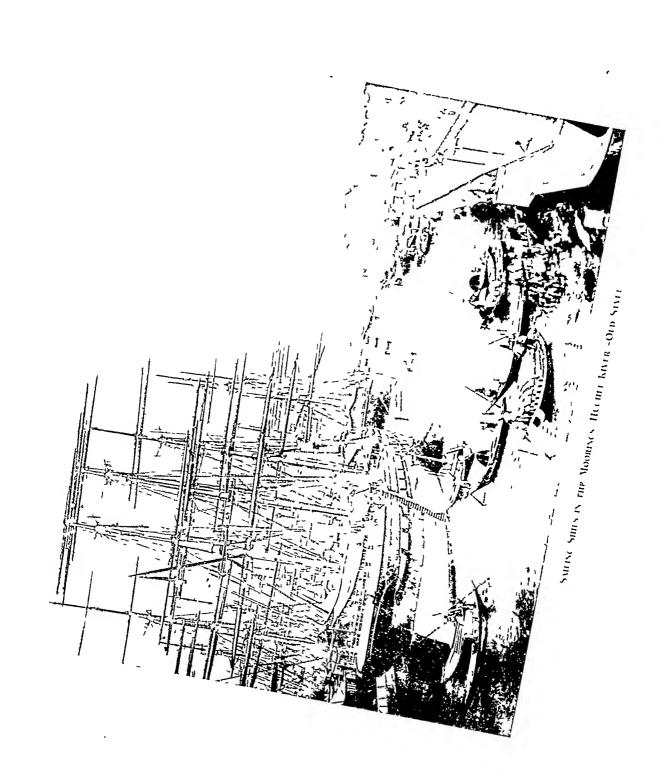
There are 7,000 offices, 67,000 miles of telegraph lines, nearly 259,000 miles of wire, and 390 miles of cable. The rates are very low, and in 1906-07 the receipts were not sufficient to cover both the working expenses and the capital expenditure by 29 4 lakhs. The total capital expenditure has been 987½ lakhs, and the return on the capital account about 3 per cent. Telephones are in their infancy, the gross receipts of the companies were only about 6½ lakhs and their average earnings less than 5½ lakhs. The average annual subscription to the Government telephone is a little over two lakhs. The total capital outlay on the Indo-European Telegraph has been 148½ lakhs, the working expenses are 70 22 per cent, and the net return to capital 3 on per cent.

Roads

Seventy years ago, there were no roads in India in 1901-2 there were 37,000 miles of metalled roads, about equally divided between the Government and Local bodies and 136,000 miles of unmetalled roads of which five-sixths were maintained by the local authorities. Some roads are under the Forest Department, or belonging to the owners of large estates, while many of them serve as famine relief works. In 1906-07 about Rs 833 lakhs were spent on civil works, mostly roads, only 10 3 of which were spent in England, 489 4 by the Provincial, and 235 9 by the local authorities. It will be noted that there are ten miles of some sort of road to every square mile of country this after deducting the urban roads, leaves a totally inadequate amount for the remainder of the country, where, in



STEAMERS IN THE MOORINGS, HUGHII RIVER-NEW STYLE



many districts, the most primitive methods of transport still obtain, in fact, it is estimated that, exclusive of Bengal, there are 3,200 000 carts in the country is evidently great scope for development here some light ruly is have been laid on or beside the roads and electric trimwith are fast superseding the horse and steam ones, and are also being introduced in new A road train system is being tried, and will if successful, work wonders Still although labour is cherp, the duly vage of the mass of the population is so small that the hilf-penny fire 50 common in England, would represent it least two hours' income of the great majority of the people

tuic of the	llowing table	$T_{I \setminus U_{RE}}$	10
millions of	icres)	TINURE IS useful as showing the great portion of the land	na (m
District	kvotwari (p. 1.3nt proprietor) —	Anundari (larger proprietors) and village Communities	

done	f the people two hours' income
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	20 0 121	6-1-	· ·	2 ~
By the end of 190	I _{RRIC MION}		Irg 8	603 1

The waterways except in Bengal are not greatly used is means of communication and even in that Province Steam vessels are comparatively few and slow especially when working up stream and with a touple of flats Intehed panner-wise to them It is true that they run pretty light on their long upward Journet's—but coal is burnt and crews and establishment have to be Paid all these items to to swell the cost of the downward from his and the commentation of tost of the downward freight and the competition of the radways mereases every very in country bouts it is only possible because the large the country policy is only possione necessary increase the rivers, what they eaten in the rivers, and tre quite content to make only one or at most two journeys 3 year. They have in easy time of it comme down stream but the labour of towing their heavy botts is unst stream to very ardnoss ten or fuche men ire employed and each has his own towrope kenerally mide by themselves during their lessure time or rame nor steeped and decort cated by their these men up to their necks in water on the context and median It is not in uncommon sight to see side of a bend in the TWCF Prinfully and mely by make make the prinfully and mely by the prinfully and the prinfully are the prinfully and mely by the prinfully and the prinfully are the prinfully and the prinfully are the prinfully and the prinfully are the prinfully a mch pull n the r boats round m the slacke t stream

By the end of 1907 the capital outlive on Irrigation works had been (in crores of rupees) 50 and a permanent debt of 1 4 had been incurred, the irea irrigated

Is a special property of the description of the des tricts into highly cultivated linds. The vork is all done by Government and is hardly open to privite enterprise as the bringing of such enormous trees under cultivation necessitates a high quality of idministrathe tilent in settling and conferms viter rites in setting out new villages, and in indicing 4 seculturists from congested districts to letter their or n province and to settle on the new Lind. The additional produce thus rused has facilitated the coping Vith funne but his idded enormously to the difficulties of the ruly its in finding sufficient rolling stock passing places sidings and terminal freshties for handling the triffic vathout undue delay and at a reasonable cost. The question undue derivand at a reasonable cost and question has been rused of establishing elevators in some of the most prohibit krain centres, the capplaines are mostly need for the nurnose of crading above others. mostly used for the purpose of kriding v heat kithered from very lirge (states The conditions in India ire from very large escates the commons in their account to tally different produce is collected from a host of the country that the sorting it is believed of brain to tall the country to the country that the country the country that the country the country that th yaries in quality. The sorting it is believed his to be done almost entirely in the merchante A archone & at the porte although his emet busine ees it is time to in the pairs are more many manners in the summer impossible to accertain exactly how it is carried en It is this difficulty y high stands in the y average on the stands in the y average of the stands in co-operation between the Trible and Commerce of the

DEPARTMENT OF COMMERCE AND INDUSTRY The Imperial Institute was to have done wonders, Commercial intelligence offices have been tried, and now a Director-General of Commercial Intelligence has been appointed "to prepare statistics and to act as intermediary between the Members of Council and the Commercial public; If this officer can establish some uniformity in reports, enabling items to be compared without a heart-breaking amount of cross reference, and if he compiles statistics that will interest the and if he complies statistics that will interest the community and not be purely official, he will quite the beautify his appointment. But there is great lee-way covernment. Justify his appointment Dur there is great fee-way to be made up To quote the new Government Gazetteer "Even when the East India Company was ontiroly divocted of its functions of trading from was entirely divested of its functions as a trading firm, the jealousy of outsiders which had led to htigation against 'interlopers' in the 17th century still con-Up to 1837 Europeans were not allowed to acquire or lease land without the sanction of the Governor-General in Council For many years Commerce was encouraged, if at all, only by such indirect means as the experiments in the establishment of new means as the experiments in the establishment of new staples of cultivation. Even the alignment of roads and subsequently of railways, though principally to develop the country, had frequently to and subsequently of ranways, though principally intended to develop the country, had frequently to be determined by other considerations, especially military needs the complaint was commonly used that Government was indifferent to trade interest the complaint was commonly used The commercial questions referred to it were unduly The manner in which such questions had to be treated inevitably led to their being considered primarily from the standpoint of administrative convenience and, therefore, the complaint was, perhaps, (It is considered that the steps now taken Justined It is considered that the steps now taken result in the Government being "no longer exposed to the charge of indifference to the interests of an important part of the community "

The importance of this part of the Community will be evident if the Imports and Exports be considered the figures for 1834 (taking the rupee at 24 d) are given in the following table and even then they were considerable The figures for 1907-1908 are compared The freight represented by the last figures was carried (according to the accounts relating to Sea-borne Trade)

the tonnage is increasing, owing to the tendency of steamers to increase in size tion of a few ocean-going vessels still visiting Calcutta, the other sailers are nearly all native crafts, coasters trading with East Africa and the Persian Gulf Of With the excepthe total trade 54 95 per cent in value are Imports, the total trade 54 95 per cent in value are imports, Rs 6-1-5 respectively per capita. The import duties to Rs 1,02,33,658, a total of Rs 8,36,43,491, These figures are made. or under 4a 6p per capita These figures are made up of Export duties on Rice in hush, Rs 1,68,881 unhushed rice Rs 1,00,63, 673 and rice flour Rs 1,104,004 Of the import duties Rs 1,30,73 and rice flour Rs 1,104
The value given in the statistical reports, from
which the figures are taken, represent the wholesale
trade discount as far as can be cash price less trade discount, as far as can be ascertained, no deduction being made on account of duties Much of the trade as shown to and from Holland and Belgium is in reality trade with Germany, most of the large trade with Hong-Kong is trade with China, and some with Japan, the Philipines and America that assigned to the Straits Settlements and America that assigned to the Straits Settlements also entrepôts 'Indian Merchandise' includes all in India goods grown, produced, or manufactured, in India In the course of his Budget speech in the House of Commons on 22nd July 1908, Mr T R Buchanan, the Under Secretary of State, said (quoting figures in f sterling, which are here turned into crores of rupees and decimals) The customs duties are increasing year after year The yield has gone up from Rs 570 to Rs 72 in the five years, showing an increase of 11 This is due to the great increase of imports, and that increase may be attributed to the prosperity that was widespread before the present scarcity began. The in-Widespread before the present scarcity began The increase in the five years of merchandise on private crease in the five years of merchandise on private account has risen from Rs 78 75 to Rs 136 5, an increase in imports of 70 per cent in exports the increase has frade has risen from Rs 130 to Rs 173 25, while the volume of creases have been in all the important articles—such as creases have been in all the important articles—such as cotton food and drink, manufactured goods and metals Drink is not the largest of these items by any means in the total of Be trace the largest of these items by any means which

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Drink is not the largest of these items by any means TABLE I Drink is not the largest of these items by any means TABLE I Drink is not the largest of these items by any means TABLE I Drink is not the largest of these items by any means The interval of Rs 17 25 item is sugar, which is not the largest of these items by any means in the course of the largest item is sugar, which is not the largest of these items by any means in the course of the largest item is sugar, which is not the largest of these items by any means in the course of the largest item is sugar, which is not the largest of these items by any means in the course of the largest item is sugar, which is not the largest of these items by any means in the course of the largest item is sugar, which is not the largest of these items by any means in the course of the largest item is sugar, which is not the largest item is not the largest item.
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by 1,437 sailers with 126,375 tons 2,814 steamers of tons The number of vessels is dimper $\frac{1947410}{615,41,290} = \frac{25,45,260}{1,88,81,610} = \frac{2,0877640}{1,88,81,610} = \frac{1,364910231}{42,2726207} = \frac{1,364910231}{5,44,85,001} = \frac{1,77,128,07,924}{5,44,85,001} = \frac{3,13,77,18,155}{47,72,11208}$
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by 1,437 sailers with 120,375 tons 2,814 steamers of 6,726,757 tons, a total of 4,251 vessels and 68,53,132 tons. The number of vessels is diminishing, while

[See tables at end of this article for values of Imports in 1907-08, and wholesale Prices in January 1907 of Staple Imports and Exports

TABLE IV -(contd)

Mills, Works, Factories, Gardfas &c	Assam	Bengul	Berar	Bombry City and Presidency	Burma	Central India 'and Central 'Provinces	Hyderabad and Decean	Krshmır	Vrdras City and Presi dency	Misore	Punjab Frontier and Baluchistan	Rajputana	United' Provinces of Agra	Torvis
Flour Mills Glass Works Ice and Aerated Water Factories Iron Works, Engineers andbrass foundries Jute Mills Jute Presses		12 4 12 40 20		8 9 9	2 4	2			2	10	11 1 7 6	I I	12 7 1	46 1 37 40 41 21
Lac Factories Oil Mills Orchards and nurseries (including some Tea gardens)	1	7 37	2 (inclu	ding Go	4 vernm	ent and	Stateg	ardens) 1 14		1 12	1	6 16	71
Paper Mills Potteries Brick and Tile Rice Mills Roperies Saw Mills (including some other works) Silk Factories and Mills Sono Factories	II	3 3 8 7 65 2	*	1 1 4 3 4	1 17 1 11	2 (Pondich	erry 2)	27 7 1 10 1	(some	t 2 , inclu led	in oth	2 2	9 36 33 10 45 74
Sugar factories and refineries and cane Mills carbonic acid gas and rum distilleries Tanneries and leather dying works	7	10	1	2		ding Ai			7		1		3	23
Tobacco I actories Wool Mills, including a Central Jul	ı			4	' e	quipmen	t facts)	13		2		ı	1 ₃
MINES Chromium Coal and Mica Copper Gold Lead Lime stone, Surki and Tiles	5	171		6	2 1	4	1 6			13	5		6	1 186 1 29 2 20
Manganese and Magnisite Petroleum Companies Salt Mines Saltpetre refineries	1				8				1	x	2 2	3	1 4	3 9 7 7

INDIGENOUS INDUSTRY

Before enumerating the numbers engaged in industries and trades some of their peculiarities may be Formerly each trade formed a caste, and mentioned children naturally followed the occupation of their fathers the custom still obtains in a great measure, but technical schools and other influences are bringing out individual tastes and talents more and more, and in course of time these and many other "caste" rules and practices will die out especially where they The panch-Kalsı, interfere with material progress or five arts are, -The goldsmith, the carpenter, joiner and ploughmaker, the black-smith, the mason, found everywhere, and the brass workers who congregate mostly in towns In Southern India these arts are exercised indiscriminately by the same caste, but they are broken up elsewhere As a rule they use the rudest tools, and there is a fine field open to anyone who would give them similar articles of a better make, of more lasting character and at a slightly enhanced cost A description founded on Mr J Worsley's monograph of the lohar or blacksmith's work in the Punjab, gives a fair idea of the ways of natives artisans in general There is a lohar in every village who makes ploughshares, scy thes, rakes, axes, common pots and pans, etc He uses old scrap iron or disused rails bought up by a

local bama at auction, or from the Railway authorities, for Rs 4 a maund Occasionally he buys English bars or other merchant iron as being handier and involving less labour—for he does much of his hammering cold, to save his fuel, which is charcoal His furnace is of mud and he only works to order, mostly in iron, although he sometimes welds steel edges on scythes, etc. The smith of the town turns out a much more finished and polished article, and is not always a lohar by caste, and he makes attempts to improve There are two classes of these artizans, viz, the independent man who works to order, and the shop or factory hand. The first makes knives, razors, scissors, buckets, nails, etc furnace is of burnt clay, partly underground His fuel, charcoal, his bellows the usual double-handed ones, or a rough fan like a thermantidote with an underground conduit for the blast, and he does not make more than Rs 15 a month, while his old scrap iron, or kucha loha, costs him from Rs 4 to 7, his imported pacca loha Rs 8 to 12, and his Ispah, an inferior brittle steel, Rs 7 to 11 per maund. In shops they make 110n and steel safes and tin-lined cash boxes, and all kinds of locks and padlocks. A lock made by a lohar at Marauli village in the Punjab "was so constructed that if anyone who did not know the secret tried to open it, he released a handcuff, which fastened on his wrist "

The extension of certain trades is sure indication of increasing prosperity, when he can afford it, the native first starts a belati or European umbrella then belati shoes, and gradually replaces his earthen or iron vessels for brazen ones, and, when they can be procured, by those made of aluminium Ceremonial purity is not in the way of this conversion. An earthen vessel that has been defiled cannot be purified and has to be broken up, a metal one can be made clean and need not be This is a practical provision, in fact caste rule are eminently elastic and can by authority be modified to suit circumstances, as, for instance, in the case of railway travelling and the use of water from a public supply It would be a fatal mistake to jump to the conclusion that caste can, therefore, be ignored amongst self-respecting and respected natives, who have not abjured it altogether, it is as strong as ever and is always worth studying in transactions with them For instance, weavers are gradually rising in rank, and are classed according to their work, and in the following order -Coloured turbans, ditto plain, coloured waistcloths, ditto, plain, hemp and flax workers are very low in the social scale—the hangman is always a worker in flax, the blanket weavers, curiously enough, raise a breed of small cattle Spinning cotton-yarn, steeping and decorticating jute and other fibres by the native processes is eminently a domestic industry, and employs much of the women's spare time There is a great lack of wholesome competition in these non-agricultural services among village communities, and they are mostly paid for in land and in grain this of course, makes it almost impossible to value the income enjoyed by these craftsmen Toddy drawers, cane workers, milk sellers, and silk weavers, cluster near towns Thirty different occupations in villages, or connected with them, account for 90 per cent of the whole number, the five hundred other occupations are followed by a population equal to that of Europe a million of these are employed in the combined trade of preparing tobacco, betel leaves, and areca nut, for smoking and chewing The distillers of country liquor are often Parsees this industry might be largely extended and be very much improved if it were not for the fiscal difficulties in the way of distilling from The excise rules also prevent that cheap preparation of alcohol for industrial purposes which would give an inexhaustible amount of incredibly cheap fuel for motive power

Allusion has already been made to the want of uniformity in Government reports—a glaring example of this is given in the table abstracted below, to which the following foot-note has been added -" the groups which were shown in one part of the scheme in 1891 and in a different part in the present census have been transferred to the orders and sub-orders in which they have now been classed The result is that the totals of orders and sub-orders for 1891 now shown differ in some cases from the corresponding totals in the census tables for that census' to the great bewilderment of the student and investigator instance "unskilled labour not agricultural" is put down as numbering 25,957,953 in 1891, whereas in that report "labourers, earth workmen, etc," the nearest

heading to it, were put down as numbering 25,468,017, a small but irritating difference of 489,936

TABLE V (1901) OCCUPATIONS

- fall since consu

$(R=rise, F=fall\ since\ censu, of\ 18e$	01.	
(No No	
Armlets necklaces, etc. glass and lac bangles beads and		
sacred threads (now under "Bangles etc)	548,829	,
Aims and ammunition blasting powder, fireworks swords	340,029	•
bows and arrows	49 556	
Boat and ship builders mostly carpenters now under	. 49 550	
Ships and Boats		
Books and Prints exclusive of pri on labour	45 328	
Briss copper and bell metal	94 227	
Cane etc mat makers, leaf plate makers	390 326	
Cart makers mostly carpenters, now under 'Carts,	1,290,961	
Carriages etc	43 469	
Carters pack animal drivers, etc, now under 'Roads		
Carving and engraving including children from the	1,605 529	
earliest age	_	
Cotton hand looms and spinning wheels	60 790	
Dress etc, tailors dealers in cotton piece goods embroi	7 702 003	
derers	2 069 332	
Earthen and stone ware potters, hand mill stone	~ 009 3 12	
dressers etc	2 125 225	
Engineers, draughtsmen and surveyors	100 700	1
Furniture	17,813	
Glass and china ware	17 942	
Gold silver and precious stones gold and silver wire	-7 54-	
lace and braid	1,768 597	
Gums, way, reams and similar forest produce, drugs, dyes	-77 - 577	
pigments etc now under Drugs, gums dyes, etc	455 763	,
Harness, that is the embroidering thereof	15 561	j
Iron and steel makers and sellers	1,475 383	1
Jute, hemp, flax coir makers rope makers	649,406	Z
Labourers, earth workmen etc, now under "Earthwork,		
etc, General Labour'	17 954 331	f
Leather horn and bones, tanners, mostly villagers	3 241 935	1
Masons, mudwall makers stone cutters brick and lime	_	
burners now under Building	I 579 760	1
Medicine chemists, patent medicine vendors quacks etc	520 044	r
Music, acting dancing & musical instrument makers	574 119	f
Paper exclusive of prison labour	34, ⁸ 73	f
Post and telegraph now under Messages	I 53 374	f
Railway plant employed in railway work hope and Railway staff administration and working staff now		
Railway staff administration and working staff now all included under Railways		
Ships and boats owners fishermen sailmakers, etc now	547,356	r
all included under Water	-06	
Silk silk worm rearers workers in silk	786,945	f
Tin converting kerosine oil tins zinc quicksilver and	399,569	•
lead	76 098	r
Tools and machinery including carpenters, etc	317,756	ř
Toys and curiosities	45 084	ŕ
Warehousemen weighinen etc., now under Storage and	42 604	•
Weighing	476 428	f
Watchmakers clocks and scientific instrument makers		r
Wood and bamboo, carpenters, sawyers and dealers	2 499 531	ŗ
Wool and fur blanket and shawl weavers wool spinners	.,, ,,,	
cloth sellers	393 848	f
The table shows a fall	-	

This table shows a fall in numbers between 1801 and 1901 in twenty-two industries and callings numbering 56,649,558, of 11,418,111 of which "cotton" and "labourers" accounted for 8,632,149, and a rise in 14 numbering 3,956,920, of 994,268 of which "masons" and "tools" accounted for 274,964. It is difficult to account for these figures machinery may have had something to do with it and plague and famine still more

Besides the undertakings enumerated in Table IV, labour of sorts is employed in some 55 smaller establishments, viz, Aerated waters, Aluminium, Asbestos, Australian Boxes, Carbonic Gas, Charcoal, Colours and Varnishes, Crystal, Fibre Estates, Fibres, Glass, Grass Farms, Knitting, Lead Rolling, Mango Farmers, Matches, Metal Factories, Minorals, Oil Eucalyptus, Paint (metallic), Perfumers, Rhea, Stone Patent,

Textiles Again there are of Bagmakers at Allahabad 1 and Cay npore 2, Billiard table makers, 3 at Ludhiana Carpet manufactories, 6 in jails Cirrige tyres 1 at Meerut Chemical works, 7, Coach builders, 48 Floor cloth at the Flgin mills, Caumpore, Lurniture, 36, Gunmakers 5, Harmoniums, 2, Ink 3 Iron safes, etc., 14 lithographers, 14, Rubber stamps, 18 and Watchmakers, 6

Breweries -In 1906 the Breweries produced gallons 51 millions, of which nearly half was bought by the Commissariat for European soldiers, who also, with other Europeans, accounts for most of the other half

imported beer amounted to galls 5 millions

There are 14 cardamom & pepper gardens, of which II are at Hassan (Mysore) and 3 in Madras chona (including Government gardens) is raised in 36 places, of which one is at Darjeeling and the remainder in Madras tea being also planted in some of them These are worked vithout profit quining being sold

practically at cost price

Coal -It was rused as under in the following Provinces 1901 and 1906 (thousands of tons) Bengal 5487 6-8617 8 Central Assam 254,285,5 Bengal 5487 6—8617 8 Central India (Rewah State) 164 4-170 3 Central Provinces 191 5—92 8 Hydersbad 421 2—467 9, other Provinces or States, 116 9—148 9 Total 6635 7—9783 2 Consumed as follows -Railways 2700 Bunker, 1000, Inland Steamers in Bengal, Assim and Burma 450, Mills, Cotton & jute, 1110 other industries and Domestic Consumption 2965 The Railway freights for distances over 1000 miles are Rs 9 131 per ton About 100,000 persons were employed, one-third being women

There are two Cocoanut plantations in Madras and three devoted to fibre growing, one in Madras and two

ın Sylhet

The 489 Coffee gardens and estates are distributed as follows cinchona, pepper, and tea being also raised on some of these Madras, 263 Mysore, 225

and one in Sylhet

Cotton - The mills contain 59,400 looms and 5,546,000 spindles, employing 211,000 operatives 106 are exclusively spinning and 10 wearing mills, the rest being both spinning and wearing, and 26 of the total are worked by private proprietors. The capital invested and debentures issued are estimated at 17 crores of rupees The outturn of yarn (excluding mills in native states) was in 1906-07, 581,378,000 lbs of counts I to 25, and 49,175,300 lbs of counts above No 25-a total of 630,553,315 lbs The continued increase in the production in the higher counts of yarns has risen from an average of 20 millions lbs in the years 1896 to 1901, and is now 8 per cent of the total The outturn of yarns numbers 31 to 40 increased 121 million lbs in 1901-02 to lbs 17 millions in 1906-07 The imports of yarn are about 6 per cent of the total Indian production, being Nos 1 to 25, 2,538,600 lbs above 25-32,070,090 lbs -total 34,609,500 lbs weaving there is a very decided tendency to increase the output of the finer fabrics The outturn was of grey goods 29,599,300 lbs of other kinds 29,402,200 lbs a total of 159,001,500 lbs The area under cotton in 1906-07 was estimated at 22,344,000 acres and the yield, in bales of 392 lbs at No 4-908,000

Irdiyo - In spite of the competition in cheap infine dies there are still are futories in existence and it is expected that in consequence of the regards vork undertilen it Sirsi und Pu'n improved culti vation will result in a great cheapening of the product The factories are distributed as follows -- Allahabad, 2 Arangarh 9, Binkura 2 Bhacalpur 15 Bulandshahr 1, Cavinpore 1 Chimparun 50 Etah 4, I yaabad 2 Gorakhpur 11, Jaunpur, 7, Madras 2 Maldah 5 Meerut 1 Midnapur 4 Monghyr, 30 Murshidabad. 15 Nadivi 15 Partabyurh 12, Purneah 33 Sirun 38 Shahabad 18 Shahjehanpur, 2 Sultanpur, 2

Irrhoot 128

Jule—The spinning and yearing of jule used to be done by hand labour, the fabric being used for the clothing of the poorer classes. This industry was checked by the importation of cheap Luropean cotton goods and was diverted into the maling of gunnt bags. The first power mill was started near Calcutta m 1857 and there are nov 25 000 looms and 520 000 spindles worked by 167,000 operatives the numberhaving doubled in the last ten years The capital invested in the mills (including debentures) is over 1170 lakks Jute is now manufactured in Germans and in the United States as well as in Dundee where half the number of looms have absorbed a capital of 750 laklis and where the consumption of ray material is only one-sixteenth of that used in India. In this country the outturn is chiefly in coarse goods, whereas the Scotch mills are engaged in finer work and their looms are adapted to a much greater variety of cloth

Jute is chiefly grown in Bengal, but also in Behar Madras, and Nepal the average in thousand acres and the outturn in thousand bales of 400 lbs each in Bengal, was-in 1891,1403 4 acres and 5717 4 bales in 1907, 3883 2 acres and 9 585 balse besides 140 0 bale in Cooch Behar Sepal Madras and Upper India Prior to 1825 jute imports into Europe were confused with hemp. In 1832 a Dundee manufacturer used it as a substitute for hemp and the trade was then started,

being practically an Indian monopoly

Oil-seeds — The area and yield of the main oil-seed crops were as follows in 1906-07 in thousands of acres and tons, rape seed 4196 51, 1073 6t linseed 3028 21, 422 3t sesamum 310101, 4206t ground nut

601 41 229 ot Opium — The cultivation and sale of opium is under Government regulation in British India, and a heavy duty is imposed on all opium exported from Native States Towards the end of 1906 edicts were issued by the Chinese Government with the object of suppressing the use and growth of the drug in China within ten years In consequence the total quantity (including Malwa) of opium exported from India beyond sea was limited to 61,900 chests in 1908, 56,800 in 1909, and 51,700 chests in 1910 any further reductions depending on whether China has effected a proportional reduction during that period

Paper - The mills employ 4,700 hands and produced lbs 47½ millions valued at over 63 lakhs They supply foolscap, blotting-paper, note-paper to the Government Offices, but the industry is checked by the competition of cheap wood-pulp paper from Europe At present only 45 per cent of the paper used is made in the country, but there is no reason why the manufacture of wood-pulp paper should not be successful in India

Of eight Pepper gardens, in which some coffee is also raised, there are four each in Madras and Mysore

Rice—The area under cultivation in acres, and the yield in tons of cleaned rice, were estimated as follows in 1906-07—Bengal, 24,506 2a, 9,773 it, Eastern Bengal and Assam, 16,105 8a, 6,123 8t, Madras 6,934 9a, 2,519 8t, Lower Burma 6,988 6a, 2,840 3t

Tea—The 1479 Tea Gardens and Estates are distributed as under, fruit and coffee being also raised in some of them—Andaman Islands, I, Assam, 503, Cachar, 168, Chittagong, 26, Chota Nagpur, 24, Darjeeling, 120, Dehra Dun, 32, Dooars, 117, Kangra, 101, Kumaon, 48, Madras, 141, Sylhet, 153, and the Terai, 46

Since 1885 the area has increased by 86 per cent, and the outturn by 236 per cent, the figures for 1906 being 533,300 acres and 240,849,900 lbs. The capital engaged is nearly 22 crores of rupees, exclusive of private capital, employment being given to 570,600 persons. The percentage of tea imported into the United Kingdom in 1885 were Ceylon, nil, China, 93, India, 2, in 1906, the figures were Ceylon, 33 China 4, India 57

Rubber—There are 20 Rubber plantations, 19 in

Madras, and one in Burma

Salt—The rate of duty on salt has been gradually reduced from Rs 3-12a, to Re 1, and the consumption has risen accordingly from 360 lakhs of marud in 1901-02 to 443 lakhs in 1907-08. The duty is levied on salt at the port of importation or at the places of manufacture this must be where the collection of duty is practicable. The local sources of supply are the Southern and

Western coasts, which supply Burma and Central India, the salt lakes and pits of Rajputana, which supply the United Provinces, and the Punjab salt mines which serve the province and a considerable area round it Bengal and Burma used most of the imported salt

Sugar—The area in acres and the outturn in of tons was roughly estimated to be in 1906-07, as follows—Bengal, 423 5 acres, 419 3 tons, Eastern Bengal, 199 9a, 193 5t, Madras, 52 5a, 100 4t, Punjab and North-West Frontier Province, 286 2a, 245 6t United Provinces, 1386 7a, 1,268 6t, these figures representing 95 per cent of the output, exclusive of the Western States The Imports in thousands of tons were Austria-Hungary (beet), 80 9, China (cane), 26, Germany (beet), 100 1, Java (cane), 206 8, Mauritius (cane), 139 9, other countries, 25 1

Wheat—The area of wheat in 1906-07 was nearly 29½ million acres, yielding 8¼ million tons, as against an average of less than 25½ million acres and 7¾ million tons during the previous five years Wheat export fluctuates greatly according to the various local de mands, which depend on the amount of rainfall

Wool—The mills contain 759 looms and 27,100 spindles, employing 3,400 operatives. An admixture of Australian wool is used in manufacturing the blankets, cloths, and serges worn by the army and the police. The produce of these mills represents only a small proportion of the trade in woollen goods, the weaving of carpets and rugs is done on hand looms in small factories, the aggregate output being very considerable, as the local demand, excluding the exports, is important.

Table No VI gives the total Imports into and Exports from ports in five Provinces for the year

1906-07, including Government Stores

TABLE No VI

IMPORTS INTO	Bungal	Bombay	Burm ı	Eastern Bengal and Assam	Madras	Sind
Ports within Province Indian Do do do Foreign Ports without Province Indian Do do do Foreign	R5 48 80,571 7,79 243 8,62,49 370 39,44 921	R5 3 30 97, 545 37 72,682 11 87,38 006 26,47,641	Rs 81,05,048 74,76,014 6 71 02,091 53,66 182	Rs 1 31 952 15,24 060 2,80,98,684 15 36,081	1,08,15 521 6 15 393 5 34 02 757 88,70 837	Rs 1 24,771 4,08,911 3 62,74 925 1,25,54,741
Total	9 58,54,105	15,82,55,874	8 80 49,335	3,12,90,778	7,37 04,508	5,23,63,348
Exports from	Bengal	Bombay	Burma	Eastern Bengal and Assam	Madras	Sind
Ports within Province Indian Do do do Foreign Ports without Province Indian Do do do Foreign	R5 50,22 529 7 20 70 774 12,07,861 79,63 590	R5 3,19 18 38, 7,24,95,468 39 99 008 3 81,33,431	R5 76,31,858 11,64 41 359 80 45 791 20 30 858	Rs 2,10 352 41,41,103 5,917 1,14,914	R5 1 09 61,8,8 4 23,57 668 6 31,096 13 92 143	Rs 4 26 092 2,24 15 690 1,18 680 40,34 601
TOTALS	8 62 64,754	14,65 26,289	13 41,49 866	44,72 286	\$ 53,72,765	2,69 95 063

To these have to be added the foreign lind tride, mostly with Afghanistan, Kashmir, Nepal and the Shan States, ciz -Imports Exports Rs 7,876,5,000 Rs 9,91,35,000

LARLY FRADIRS

From time immemoral India has been i triding country not only amongst the states composing it but, from the earliest recorded times, with forcism countries. Sir George Birdwood has recorded the properties of infrance partners between 1215 and 1506. voyages of lifteen natigators between 1245 and 1508 The Hakluyt Society have a collection of works describing voyages to and from and within India, from that of Friar Jordanus in 1330 down to that of Monso Dalboquerque in 1774 These are overlapped by Sir George's Report on the Miscellaneous Old Records in the India Office, covering the period from 1643 Berniers expedition, and of the six Trivels of John Besides these mention should be mide of Baptista Tavernier, Baron of Subonne through Turkey and Persia to the Indies during the span of forty veries made into English by J. P. London, 1682 published by Moses Patt, at the Angel, St Paul's Churchy ard 1684 Some of the triding therein mentioned has died out, Some of the trading therein mentioned has died out, for instance it is recorded that There is no steel but skins and Goatskins which are dress in Persia are transported by the Hollander into India and Japan The Ronas that famous root India, where there is also a great vent of Persian fruit, pickled in vinegar and also of their sweet waters Great store of Quinas candied, and boves of Marmalade is transported all over made at Balsara, are thence transported into India, where they are bought up by the Mahometans and Fortugueses
they should by accident bury a fly in their stomachs in the indian seas
they should by accident bury a fly in their stomachs in the indian seas
times upon the Indian seas
to voil must observe the for the Banians will est none for fear times upon the Indian seas times upon the Indian seas you must observe the proper season which being elaps'd, there is no more venturing'. That this was so traders found to and the Hollanders and the Undish understood the you must observe the their cost till the advent of steam. Formerly only the Hollanders and the English understood the but some years after the Armenians, Mahometans, and Banians have built their vessels. But is Indians and Banians have built their vessels But is at Surat amounted to for a par cent to avoid them at Surat amounted to 4 or 5 per cent, to avoid them the English hid their Jacobuses, Rose Nobles, and the English hid their Jacobuses, Rose Nobles, and Ducats in the net of their periwigs—the river ferry hide "The trade of osier, covered over with an oxin India" a little above the mouth of the Indus) in India, a little above the mouth of the Indus) begins now to decay, the sand hills having almost choked Its glories have entirely departed at the reserve time. Tavernier's knowledge of desired. or that of his translator, must have been elementary, Tavernier's knowledge of decimals, witness the monetary table found in the volume —A Mamoundi = 40 copper Pechas 49 to 55 Pechas = a silver rupee, according to the proximity of copper mines 50 to 80 cori, according to the proximity of copper the sea, = a Badu 35 to 40 badu (or bitter almonds) = a Pecha 100,000 rupees = a Lekka 100 000 Lekka = one Kraur 100,000 Kraur = one Padan and 100,000 Padan =

one Ril Hus retounding amount would be represented by Re I followed by twenty name or representation of the second of the s trillions (nough to pive nearly one million rupees to CV CTS m in, V oman and child on the blobe every man, y oman and child on the bloom the decimal point is omitted in each multiple in the first two naughts if M the few that deal management is the first deal in the fir in money and Lachange in the Limpire of the Grand In money me seeming in the sample of the original of the accounted most subtil sort of people of the control of But in the Indie they would be so tree thought fit to be apprentices to these Binters or cherifi Front compliment to the Shrofts from such a shre d freder 25 I wernier who found I indred spirits among the Grandes of the Indie their brestest trade he reports, is to venture their money by ser from surat to Ormuz Baleara, Achen, and the Philippine Island He found the manner of trivelling more commodion than in thing that has been invented for case in Frince or Italy the load of the oven was from 300 to 350lbs in droves of to to 12 000 maj inc. 300 load of from 37 000 to 52 000 maj inc. a total orons and salt a little grove rice where only rice grove rice where only corn there is none it all. grows and salt v here there is none it all There there is none it all There there is no not in the sold there is no not in the sold the so they the only upon the transporting of merchandic from country to country. The first of these tribes carry nothing but corn the second rice the three pulse and the fourth salt which they fetch from Surat and all along from is far is Cape Comorna that time Go1 traded by vater with Batavia Japan Bengala Cevlon Surat the Red Sca Ormar Balsara ctc, The following Journeys are recorded by Twee nier — Ispahan to Meri eta Gomeon and eta Candahar to Dacca — Surat to Golconda to Wasulinatan — Goa to Golconda and Masulinatan — Goa to Golconda and Meri Golconda to Masulpatam Goa to Golconda and Agra Taking this last as a specimen of a com mod_{IOUS} Delhi to Biddlpour Rs b, Pelvel-ki Sera Rs 18 Journey the stages and cost thereof were — Delhi to Bidelpour Re 8, Pelvel-ki Seri Re 18
Cot-ki-Seri Re 15 Che ki-seri Re 16 Good-ki seri
average of about Rs 2 now-1-dive 16 Good-ki seri
Pitni to Gorrockepour it Buitin 1 cirivin took
and eight days to cross them

THE TREND OF EARLY TRADE In early days the commerce of India was mainly countries to the was mainly and trade was with countries to the Westward The trade was Carried by land and no money circulated I ater and the money circulated I ater routes were discovered between the Indus and the Caspian or Black Sea, the the Olus and the Hindu Kush, but the cost was so great that only articles of Small bulk but of great value could be carried profitably. The ser traffic developed and by about 800 BC, it was established with China and with the Personal Could from the head of which courses are reached sian Gulf, from the head of which carayans reached Egypt and Syrin via Mesopotomin, carrying more bulky articles, such as sandal wood and rice percocks were also exported. It was not till about 850 years that the use of the monegone was appreciated. later that the use of the monsoons was appreciated by one Hippalus who opened the Red Ser route and traded in cotton goods, spices, and precious stones, exchanging them for the precious metals, brass,

copper tin, lead, cloth, and coral to the value of nearly Rs 46,00,000 a year. These three routes remained available for over 1500 years. After the landing of Vasco de Gama at Calicut in 1498, he, and his countrymen the Portuguese, gradually routed the Arabs, and by establishing fortified factories, commanded the Red Sea from Ormuz and the Malabar coast from Goal Merchants from Ceylon and Malacca had been in the habit of meeting those from the Gulf and Red Sea at the harbours and roadsteads along the coast. The export trade in art products, drugs dives gems, perfumes, spices and textiles was now secured, being paid for mostly in silver, but also in chemicals, glass, hardware linen, yelvet, and woollen goods.

THE ENCLISH COMPANIES

The Portuguese held the monopoly under a Papal bull but were gradually displaced by the Dutch, and in 1581 and 1593 an English Company was authorised under a chapter to trade with India by land. The

Portuguese had degenerated into pirates

In order to counteract the Dutch monopoly, an English East India Company was founded in 1600 They traded with the "Spice" Islands and in 1608 first visited Surat, which soon became their head-quarters and the mainland. After a good deal of fighting the Dutch cleared the English out of the Islands the latter then established themselves in India founding factories on both coasts and in Bengal and increasing their trade rapidly in spite of all opposition, in which the French took part after 1700. Although for some years the Company had only possessed five or six ships of 600 ton burden, yet in 1675 the exports from India amounted to Rs 43 lakhs, and the imports to Rs 86 lakhs besides private trade and the dividend earned in 1682 amounted to 150 per cent Company was enlarged early in 1700, and a hundred years later the sales at the India House had reached three crores of rupees They, however, dropped to 21 crores in 1813, when the trading functions of the Company were brought to a close as far as India was concerned, although they continued for twenty years longer in China Under the Manu code commerce had been taxed by a small annual imposition on traders and shop-keepers, and artizans and labourers had to give one day's labour a month. Up to this time the East India Company had had no such powers as it only existed on the sufferance of the native princes, but they now began to extend their territories and to consolidate their dominion over them, while sharing their sovereignty more and more with the Crown, and gradually dropping their mercantile functions and privileges. In 1858 their remaining powers were transferred to the Crown Lord Clive was the first Governor of Bengal in 1758, and was followed by Warren Hastings, who became the first Governor-General of Fort William in 1774, under the Regulation Act 1773 which created that office and its council

THE GOVERNMENT AND COMMERCE

It was not till 1833 that the restrictions were abolished on the residence of British subjects in India, and only in 1905 that a Minister of Commerce was

appointed to deal with Factories, Petroleum and Typiosives Acts, Postal and Telegraph business, Customs, Statistics, Printing and Stationery, Merchandise Marks Act, Ports and Shipping Trade, Merchant Shipping Act, Labour questions, Emigration to Foreign Countries and to Assam Tea Gardens, Collieries, Inspection and Working of Mines, Safety of Miners, Geologica enquiries, Economic Products and Arts, and Patents The Director-General of Commercial Intelligence prepares statistics, and is an intermediary between the Department and in the case of the British public, in a great measure through the Commercial Intelligence Branch of the Board of Trade at 73, Basinghall Street, I ondon, EC, where India has a room to itself, and where the work is now concentrated which was formerly done at the India Office by Sir George Birdwood, at the Imperial Institute, and to some extent by the London Chamber of Commerce The other offices and officers affecting Trade more or less, are numerous The Department of Military Supply has the procuring and custody of stores, ordnance and remounts, and is the main raison d'etre of the London Stores Department through which also, nearly all the material for the State and Railways have to pass and which undertakes orders for any other public bodies. This Department is supposed to act as a check on the enterprising foreigner who might otherwise swamp the market with his goods through the energy of his local agents There is a Board of Scientific Advice, composed of the Scretary, Revenue and Agriculture the Surveyor-General of India the Directors of the Geological and Botanical Surveys the Inspectors General of Forests and of the Civil Veterinary Department the Director-General of Observatories the Superintendent of the Natural History Section, Indian Museum and the Reporter on Economic Products There are Secretaries of Military Supply and of Public Works, Mint Masters in Bombay and Calcutta, a Director of the Pusa Agricultural Research Institute, an \gricultural Chemist and an Inspector of Mines

The Government of India is intimately connected, for good or evil, with every step taken to further Trade and Commerce in the vast dependency over which it rules, it, therefore, behaves every one fliterested in this matter to have some knowledge of the system under which India has prospered. The Secretary of State for India is a Member of the British Cabinet and represents, while being responsible to. the Imperial Parliament. With the assent of a majority of his Council of 14 (of whom two are natives of India) the Secretary has to sanction all from the revenue of India expenditures matters of foreign policy he need not consult his Council and he may overrule the majority He imposes his orders on all matters on the Government of India, and all the business is transacted at the India Office in the first instance

In India the Governor-General, or Viceroy, the Governors of Bombay and Madras, the Commander-in-Chief, the ordinary Members of the Governor-General's and of the Governors' Councils, and also the Judges of the High Courts, are appointed

by the King-Emperor

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The Governor-General, subject to the Secretary of State is the supreme executive authority in India, both in Civil and in Military matters. His Executive Council consists of six ordinary members and one extraordinary member, the Commander in Chief There are Executive Councils of two Members each under the Governors' of Bomb iv and Madras Sixteen additional Members for making Lays and Regulations" are appointed by the Victor for legislative purposes There are Legislative Councils in Bengal Bombay, Burma Eistern Bengil and Assim Madras the Punjab and the United Provinces of Agra and Oudh on all these Councils the natives of India are largely represented Every Indian Act requires the Viceroy's assent but the Secretary of State may disallow it

Courts of Wards have been established in most of the larger Provinces—their duties are to manage the estates under their charge in the interests of both proprietors and tenants—to support the family of the proprietor—to educate young wards—to pay off debts due by the estate—and to spend the surplus income in the best attainable way on the improve-

ment of the property

The Local Governments are —Major Presidencies, Bombay and Madras Lieutenant-Governorships Bengal, Burma, Eastern Bengal and Assam the Punjab United Provinces of Agra and Oudh Chief Commissionerships, Central Provinces and Berar Minor Chief Commissionerships, Ajmere-Merwara (of which the Chief Commissioner is also agent to the Governor General in Rajputana States), Andamans British Baluchistan, Coorg, North West Frontier Province, and Sind, which was added to Bombay in 1843. These local Governments have a large measure of financial

and administrative independence

There are five large Native States in direct political relations with the Government of India, viz -Baroda, Hyderabad, Kashmir and Jammu, Mysore, and Nepal The Agencies of the Governor General in other Native States are as follows —Central India —148 States (of which 137 are minor), including Bhopal, Gualior, Indore and Rewah Rajputana—20 States (of which 7 are minor), including Bharatpur, Bikaner, Dholpur, Jeypur, Jodnpur and Udaipur There are also miny Native States in political relations with the respective local Governments, as follows, viz -Bengal, Lastern Bengal and Assam -56 States (of which 21 are minor and 25 are Khasi in Assam), including Cooch Behar, Hill Tipperah, Manipur and Sikkim Bombay -354 States (of which 242 are minor) including Cutch and Kolhapur Burma -52 States, all in British India, except 5 Karen States which form Karenni Madras -5 States (of which 2 are minor), including Cochin, Pudukkottai and Travancore Punjab —34 States (of which 25 are minor), including Bahawalpur, Kapurthala, and the Phulkian States, viz -Jind, Nabha, and Patiala United Provinces -2 States. Rampur and Tehri (Garhwal)

There are 267 Districts, the executive heads of which are the Collectors, Magistrates, or Deputy Commissioners, subordinated generally to a Commissioner who corresponds direct with the Provincial

Government

Local Self Government is curried on by Municipal and Contonment Committee, by District and Local Boards and by Port Trusts who r Income in 1996-07 amounted to over 51 crore of rupees. There are 740 municipalitie in India, their receipts in 1906-07 imounted to Rs 8510 filhs and their expenditure to Rs 866.5 liftles. There are 93 Cintonments and Military Depots * the income of their committees being Rs 35 8 lables There are 103 District and 517 I ocal Boards beades 382 Union Panchayats in Madras, a total of 1002, whose united income amounted to Rs 31711khs and their expenditure to Rs 3021alhs There are 5 Port Trusts whose united income was 2316 libbs and their ordinary expenditure Rs 2062 likh beides Rs 2231 likhs on Capital The total receipts of all the various local bodies was Rs 1256 8 lakhs nearly 80 per cent of which was spent on public works

The burden of taxation in British India is under Re 1-7 per capita and including land Revenue is under Rs 2-10. Income las is levied on non agricultural incomes of Rs 1000 to Rs 2,000 at about 2 per cent, and above the latter at 21 per cent.

Liverse fees and duties are levied on intoxicating liquors and drugs. The export duties on rice yielded (at 3a per maund) Rs 115 lall he and those on Indian cotton Rs 27 o lakhe as against Rs 133 lakhe leviel

on imported cotton

Customs Duties —Cotton goods (except varn and thread) pay 31 per cent advalorem. There are special duties on arms and ammunition—spirits generally pay Rs 7 a gallon—Salt Re 1 i mained refined petroleum 1a a gallon iron and steel goods 1 per cent. Bounts fed sugar pays duties varying vith the imount of the bounts given Animals, Coal Cotton (raw), Gold Grain, Machinery Manures Oil cake Quinine Stones Fobacco (raw) Wool (raw), ind a few other articles are duty free most by all other goods pay a duty of 5 per cent. ad vidorem

At the end of 1907 there were 1728 Joint Stock Companies in operation with a paid-up Capital of nearly 42 crores of rupees (exclusive of about 57 crores of debentures issued) of which 40 5, 37 7 and 5 5 per cent were invested in Bengal, Bombay and Madras respectively the number of Companies being 387, 390 and 528, or in inverse ratio to the amount of Capital. The Capital wis thus distributed (in lakks of rupees), Banking and Insurance 450 4. Trading and Shipping 855 4. Mining and Quarrying 296 6, Mills and Presses 2035 5. Tea and Planting 353 1, other industries 1925. Nearly 55 per cent of the Mills and Presses were in Bombay Presidency.

^{*} CANTONNENTS & MILLIARY DELOTS — He stations are at the following places, it Abbottabad Agar, Agra Abmedingar Ajmere Abpetit

Cham'n, Dut, ii Decsa, Dehra Dun Dera Ismail Khan, Delhi Declah Dhamsata Dibrug urh Dinapore. Dam Dum, Lunpura, Ferozpore Fort Sandeman, Fyzabad, Gooda Hyderabad Jhansi Jacobabad Jhelum Jubbulpur Jil Indur, Kampir Karach, Kasauh Kherwara, Kila Dro h (Chitral) Kirkee Kohat, Lahore Lansdowne, Lorafai, Lucknow, Madras Malakand Mandalay, Manipur, Mardan Maymyo, Meerut, Meditila, Mhow, Multan, Nasirabad Neemuch, Nowgong, Nowsbera, Pullavarum Feshawar Poona (Head Quarters Southern Army), Quetta, Raikot, Rangoon, Ramkhet Rawalpindi (Head Quarters, Northern Army), Roorki, St. Jhomas Mount, Samana Saugor, Secunderabad, Schore, Shillong, Saikot, Sibi Saraarpur Sirur and Vizianagram

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The Companies carrying on work with sterling Capital exclusively, or almost so, in India, but which are registered elsewhere, numbered 165, with a paid-up Capital of about 103½ crores and with debentures issue of over 4½ crores distributed as follows—(in lakhs of rupees) Railways, Capital 6528 7, Debentures 3704 1, Tea, Capital 1827 5 Debentures 186 1, Cotton Mills, 12 47, Jute Mills 360 6, Rice Mills 140 2, Gold Mines Southern India) 353 0, Mining and Quarrying 719 4

Patents—Of the 620 applications, 65 were made by natives of India, 144 by others residing in the country, 194 from the United Kingdom, and 217 from other countries. They were mostly for bicvcles, chemical appliances and preparations, electrical contrivances, railway materials, tea manufacture, spinning and

weaving machines

PROVINCES AND STATES

AJMERE-MERWARA

Ajmere-Merwara —Area 2,711 square miles, containing 4 towns 740 villages, and 477,000 inhabitants, mostly Hindus. It is surrounded by Native States and occupies the crest of the Rajputana watershed. Water supply is scarce, and artificial irrigation is mostly required, it is much subject to famines. Ajmere, the capital, contains 73,839 people, and a separate temple to Brahma at Pokhur in its vicinity. There is a British Cantonment at Nasirabad, and an important cotton mart at Bewa. The birth rate in 1906 was 28 9, the death rate 32 2. There were 8 Rural Co-operative Credit Societies with 186 members.

ANDAMAN AND NICOBAR ISLANDS

Andaman and Nicobar Islands —Area 3,143 square miles, containing 46 villages and 24,649 inhabitants, mostly Hindus and Animistic. They form a chain of Islands in the Eastern part of the Bay of Bengal In the Andamans there is a convict settlement and a magnificent harbour, Port Blair, in which the whole British Fleet could ride at anchor. The Nicobars lie to the South of the Andamans, their principal products being cocoanuts, they also possess a good harbour, Nancowry. Fine timber is found in all these islands, and indications of an extensive coal-bed, while good pasturage is to be had. There were 14,696 convicts in the settlement on March 31, 1906, of whom only 715 were females. The revenue was Rs. 9 I lakhs and the expenditure Rs. 21 9 lakhs.

BALUCHISTAN

Baluchistan —Area 131,315 square miles, containing 2,054 villages, and 810,746 inhabitants These figures apply to both the Districts and Administered Territories and to the Agency Tract British Baluchistan Includes the assigned districts of Sibi, Pishin, Thal-Chotiali, Quetta, Nuskhi, Zhob, Chagai, Nasirabad, and the Bolan, the remainder belongs to the Rulers of Khelat and Lus-Beyla It is mostly peopled by Afghans, who are Suni Muhammadans, and 44 per cent of the inhabitants lead a nomad, pastoral life, the Quetta district being fertile and well-watered Manganese has

been discovered in the neighbourhood of Lus-Beyla The boundary with Afghanistan was demarcated in 1896-7, and the railway from Ruk in the Indus Valley runs through Sibi and Bostan to Chaman on the Afghan frontier, within 70 miles of Kandahar Between Sibi and Bostan there are two lines, one viâ Sibi and the Hurnai Pass, and the other via Quetta with branches from the Bolan Pass to Rindli and from Quetta to Nushki This latter opens out the trade route from India to Seistan in Persia which was established in 1896, and has now so developed that in 1907-08 the value of the goods passing over it amounted to nearly Rs 23 lakhs, or 82 per cent more than in the previous year Moreover the troubles in Persia did not check it Other projected railways on the frontier are from Ghazi-Ghat to Dera Ghazi Khan and from Larkhana to Shahdadpur

BARODA STATE

Baroda State —Is ruled by a Maharaja or Gaekwar is 8,009 square miles in area, and contains 47 towns and 3,035 villages, with 1,952,692 inhabitants, of whom 469,000 are urban. It is the premier Hindu State, is non-tributary, and its ruling Princes exercise the power of life and death. Baroda, the capital, contains 103,790 inhabitants and is the centre of a network of railways, some of which have been constructed by the State it also has direct communication by broad gauge rail with Bombay to the South, and with Central India and Calcutta in the East, while metre gauge lines connect it with the Punjab and the North generally. Ahmedabad had a population of 185,889 in 1901, and a death rate of 52 og in 1906. The soil is generally fertile and produces some of the best cotton.

BENGAL PRESIDENCY

Bengal Presidency —Area 115,819 square miles, containing 142 towns and no less than 137,489 villages, with 50,722,000 inhabitants, of whom 78 per cent are Hindus, and only 5 per cent live in towns. The province divides itself geographically into four great districts, the combined delta of the Ganges and Brahmaputra on the south, Behar on the north of the delta where the plains of the Ganges are drier the delta of the Mahanadi on the south-west of the Ganges seaboard, forming Orissa, and Chota Nagpur a mountainous district abutting on the Central Provinces. The last two districts are subject to drought

There are 100 estates under the Court of Wards, the receipts of which amounted (in lakks) to 1664, and their debts to 2235, of which 610 represents the debts of the Bettiah estate and 494 those of the

Banaili estate in Bhagalpur

Municipalities —The Calcutta Corporation consists of 25 elected and 25 nominated Members, 13 out of the 50 form a general committee with executive powers. In the interior there are 128 municipalities with 6,493 ratepayers, and 30 of them together owed Rs 36,25,500, of which Howrah owed more than half The average incidence of municipal taxation over the whole province amounted to Rs 15-11. The water-rate was in force in 13 and lighting-rate in 4. The Receipts of the Calcutta Corporation were

(in lakhs of rupees) 876 the expenditure 96 r Boards -There are 29 Districts and 78 Local Boards, besides 49 Union Committees (with an aggregate income of Rs 18,600) The income of the Boards apart from the head of "Deposit and Advances" was Rs 642 Inkhs, including a Government contribution for civil works of Rs 9 lakhs The expenditure was Rs 754 lakhs, of which Rs 438 lakhs was chiefly on roads. There are four successful light rulways constructed under the guarantee of the Boards, and several others are proposed. Considerable progress is being made with feeder roads to railways District Boards have done better than the local ones The Receipts of the District Municipalities were (in lakhs of rupees) 526 the expenditure 514

The exports of Jute for the last three years were 711,800 tons valued at Rs 1,686 5 lakhs in 1905-6 704,460 tons in the next year, valued at Rs 2,412 5 lakhs and in 1907-08, 630,117 tons, worth Rs 1 570 8 lakhs exclusive of gunny bags and cloth

The figures for Tea (exclusive of tea waste) in the

three years were 1997 million lbs valued at Rs 800 9 lakhs lbs 1758 and lakhs 737 and lbs 1678 and lakhs 767 o respectively The principal other productions are shown in Tables 2, 3 and 4 The birth rate in 1906 was 37 3, the death rate 36 1. There are Co-operative Credit Societies urban 8 with 725 members, Rural and Grain, 210, with 14 583 members

Calcutta is not only the Provincial Capital, but is also the seat of the Imperial Government in the cold season. In the hot season there is an official migration to the Hill Sanitoria It contained in 1901, in the suburbs and Howrah, 1,106,738 inhabitants. Its death rate in 1906 was 35.7 The city is well supplied with water and has had a system of drainage for many years Electric current is in great demand for power and lighting and ventilating purposes, and its electric tramways are worked on the overhead

trolley system

The number of ships that cleared from Bengal in 1907-08 was 526 of 1 466,349 tons burden, mostly from The chief imports and exports into and from that town in 1906-07 were by rail and river (in tons) coal and coke 5,353,013 and 102,963, cotton goods, export only 104,986 grain and pulse 799,962 and 413,019 jute all goods, 1,123,048 and 97,305 metals, export only and including manganese ore, 170,306 oil and oil seeds, 311,048 and 28,585, salt export, 394,585, imports by sea nearly 142,000 (the consumption per capita being 135 lbs in Orissa and 11 216 elsewhere), saltpetre, import only 28,421 sugar, 14,266 and 320,742, tea, 76,298 and 839, tobacco, 19,851 and 7,575 wood, import only 117,814, and treasure (ounces) export onlygold, 417,805, silver, coin and bullion, 64,108,919, mostly from the Bengal is well provided with railways which converge from all parts on the capital, but the rail traffic is much handicapped from want of bridges across the big rivers both in Calcutta itself (where there is only a floating bridge for road traffic) and to enable the railways on the left bank of the Ganges to cross the river, and still more by the want of rolling stock and additional tracks The city is encircled by a rail-way, and there is access to it by the river from the

ser and by canal from the Sunderbunds in the east An ever-extending system has been established of jetties on the river Hughli and of docks stretching towards the Mutlah river with which in the writers opinion they will be connected some day. The port is in charge of a frust, the magnitude of v hose operations may be gathered from the following figures -

It is stated by the Port Commissioners that in 1907 their income was (in lakhs of rupees) 100 1, their expenditure 98 1, less 26 2 set aside as Revenue and Reserve and 3 1 carried forward. The capital expendi ture was 1014. The capital debt amounted on March 31 1907, to 5970 and the assets to 8003 exclusive of increased value of land and of the Strand bank and the Howrsh fore shore. The sinking fund amounts to 58.7. A scheme for further accommodation for vessels has been approved as 50 per cent of the import cargo steamers were delayed for want of jetty berths I dredger lifting 5 000 tons of sand an hour has been set to work on the James and Mary short 186 815 tons of imports including sleepers 38 361 and sugar 93 654 and 3 796 404 tons of exports passed over the dock quays 903 vessels were berthed in the vet dock 155 in the dry dock and 224 at the jetties There passed through the docks the following percentage of the goods handled, 112 —coal, 95 cotton, 67 hides, 60 jute 54, rice 23 ter 85 and wheat and seeds, 63 In 1895-96, 347,909 tons were received and despatched by the Commissioners' railway, in 1905 565,394 tons were handled 1 project for canalizing Tolly's Nullah is under consideration. The local authorities have complained bitterly for many years of the shortage of railway wagons

The Corporation, the Port Trust, and the Bengal Chamber of Commerce have all urged the necessity for improving the similation of the congested areas in the city, and their recommendations with regard to the financial and administrative details of the Board of Trustees are being considered the Board having been sanctioned in 1905. The expenditure on street improvements and attendant measures is estimated at about Rs 825 lakks to be spread over 20 years Drunage and water-supply have been engaging the attention of the municipalities for many years past, in 9 municipalities there are complete water-works Patna, a city of 134,785 inhabitants, has always been

well to the fore in these matters

As will have been gathered from the Tables, the chief products of the Province are coal, of which 76ths of the whole Indian output are mined in the Ramganj and Jherriah coalfields, fibre and other vegetable products Iron ore has been mined and worked at Barakar for many years, but has only lately received substantial support by means of orders for the State Railways Gold and diamonds have also been found in Chota Nagpur

The cultivation of opium is being restricted 1903-04 there were 642,831 acres under poppy, this has been reduced by Government to 500,000 acres in The number of chests sold in 1906-07 was 52,800, only 45,900 are to be sold in 1908-09

The wealth which used to be hoarded up or lent at usurious rates is now being gradually turned into more profitable channels, and native men of substance

are putting their capital into industrial enterprises in increasing numbers. This while making the country self supporting in some directions will, by increasing the general prosperity increase the wants of the people for goods other than what will be produced by them for many years to come Every step in that direction vill therefore be one towards the development of trade and commerce in general notable instance of one important step in the venture is at Kalimati, 17 miles from Sim Junction on the Bengal-Nagpur Railvax and 153 miles from Calcutta, where the Tata Iron and Steel Works are being established Messrs Tata & Sons have formed a Company with a capital of Rs 23 17,500 mostly privately subscribed by the Parsis in Bombay, and machiners will be installed and blast furnace erected capable of a very large outturn of iron ind steel bars plates and goods of every description The works will have connection by rul with the main line by branches 40 miles in length

Receipts from Land Re enue 4863 expenditure 75 1 Excise brought in 182 5 and Income Tax 46 0, the incidence of which in Bombay was Rs 2-3a Civil Works 987 were spent. The village moneylenders in Gujarat charge from 6 to over 15 per cent, the Co operative Societies 61, and illow 3 to 4 per cent on deposits. In Bombiy the former charge from 12 to 15, while the latter only charge

9 and alloy 61 per cent on deposits

Bengal States —Cover 32,733 square miles and contain 13 towns and 21 418 villages with 3 940 462 inhabitants of shom by ooo only are urban. The description of the Bengal Presidency applies to the Native States in it

BOMBAY PRESIDENCY

Bombay Presidency - Area 75,018 square miles containing 173 towns and 21 206 villages, with 15,301,677 inhabitants, of whom 3 millions are found in towns. There are of Co-operative Credit Societies, Urban 20 with 1 945 members Rural 50 with 3,578 members. The birth rate in 1906 was 33 8 and the death rate 35 1. For administrative purposes the Presidency includes Aden, Perim, and Sind, the first two are outside the purpose of these notes and the third will be treated separately. The Presidency is divided in two by the Nerbudda river, on the north lie the Province of Gujarat and the Peninsulas of Kathian ar and Cutch, to the south are found the Maratha country, the Deccan, and Konkan Gujarat is a low plain of alluvial origin, in the southern portion the valleys of the Tapti and Nerbudda are richly cultivated in the northern part the soil is sandy, and the rainfall is deficient The limestone mountains on the north-east divide this Province from Merwara, Cutch, capital Bhuj, lies to the south of the so-called Rann of that name, a salt water marsh Coming down south many Nitive States are traversed which have ilready been enumerated containing many important towns, such as Ahmedahad, with 185,889 inhabitants, Jamnagar and Broach near the mouth of the Nerbudda The Kathiawar Peninsula is served by lines of railway radiating to almost every port and joining

the main line running north from Bombay railway is projected round the Rann of Cutch which will link Bombay directly with Karachi in Sind this port, although of enormous importance, is at present only connected to the capital of the Province to which it belongs by the sea or by an

exceedingly roundabout railway route

In the Southern Division are the Mahratta country, the Deccan, the Carnatic, and the Konkan in this part of the Presidency is Surat, with its 119 306 inhabitants, and its very ancient port at the mouth of the Tapti, which is now silted up. The Decean is the portion of India lying south of the Nerbudda that part in this province including Khandesh is an elevated plateau behind the Western Ghats The range of hills are so-called which run north and south near the coast and cut off the Konkan (a narrov strip between them and the sea) from the interior. There are many streams which rise on the east slope of the Ghits and finally find their was into the Bay of Bengal. The largest of these are the Godners the Unipera the Bhima, Kistna and Wards rivers. The country south of the Kistna is called the Carnatic, and North Canara is the southernmost district of the Presidency The agriculture varies with the physical features of the country The Ghats are covered with time forests The rainfall of the Konkan is overwhelming, so rice is grown in the lov lands millet thrives best in the Deccan, rice and wheat in Gujarat and cotton almost everywhere but especially in the inland districts

With the exception of one abnormal year, there has been a continuous decline in the exports of Opium for many years past, the number of chests exported in 1906 of having been 13 321, 972 chests were sold in the Presidency and 575 chests were supplied to the

Madras Presidency

The Provincial Government has under contemplation the survey of several indigenous industries and the compilation in an easily accessible form of existing materials containing information regarding them with a view of ascertaining the obstacles with which the various local crafts contend, and to devise measures for their removal either by providing improved processes and implements or by such other means as may in each case seem most likely to secure the object in view. Experts to be employed in each case, as the monographs—such as those on iron, quoted above, on pottery, cotton silk and woollen goods, brass and copper, ivory and woodwork—do not contain complete information first one to be taken in hand is an expert examination of the weaving industry in the Presidency, with special reference to improvements in hand looms

The consumption of salt per capita was 11 65 lbs, 30 fish curing yards were opened and treated 200,207 maunds of fish Poona is the capital of the Mahratta country, and the Government moves into this city during the hot weather The inhabitants number 153,320, the death rate in 1906 (excluding cantonments) was 10,356 The province in general has suffered severe visitations of plague so much so that the population has diminished in

some measure owing to emigration railway systems are the Bombay, Baroda and Central India northwards, The Great Indian Peninsula, to the eastward, and the Southern Mahratta to the south The net Revenue of the Province was There were estated under Covernment 5146 There were 581 estates under Government management with an income of nearly iii lakhs Municipalities—The Bombay Corporation consists 56 elected and 16 nominated members outstanding debts amount to nearly Rs 5 crores and the invested sinking fund to about Rs 68 lakhs The net receipts in 1907-08 amounted to Rs 56 7 lakhs, to which octron contributed Rs 154 lakhs expenditure was Rs 942 lakhs, the balance at the end of the year was Rs 195 lakhs and the incidence Rs 66 I lakhs have been spent in combating the Rs 66 I lakhs have been spent in combating the plague in the last three years, out of the revenues of the municipality The inhabitants in 1906 numbered 977 822, the death rate being 68 98 There are of Co-operative Credit Societies, Urban 3 with 103 City Improvement Truct have enent Re 241 y lathe City Improvement Trust have spent Rs 241 I lakhs Since 1898, mostly in acquiring properties yearly revenue is Rs 13 9 lakhs, and this will in he chant on works the most yearly revenue is Ks 13 9 lakns, and this will in future have mostly to be spent on works, the most will be the subsoil and surface important of which will be the subsoil and surface drainage of the city and of Malabar Hill Their

In the interior (including Sind) there are 162 municipalities, of which 14 were city, 4 temporary, and 44 corporations, composed entirely of elected and 44 corporations, composed entirely of elected members. Their aggregate income was Rs. 65 r lakhs, liabilities Rs. 44 o lakhs. The incidence of tavation of the corporation of the corporation of the corporation of the corporation of tavation.

liabilities Ks
ranged from Rs 7-14-1 in Karachi to 7 pie in Ashta
District Boards—There are 25 district and 211 taluk or sub divisional boards with 3,624 members, of whom 40 are ex-officio, 1,906 nominated and 1518 elected Their income was Ks 03 0 lakhs, their expenditure Rs 540 lakhs, of which Rs 270 lakhs balance at credit amounted to Rs 305 lakhs

The trade of Bombay Port as a whole in 1006-07 Their income was Rs 63 6 labbs, their

The trade of Bombay Port as a whole in 1906-07 formed a record have continually increased on account of the great The imports of building materials activity which has been displayed in the erection of new buildings throughout the city

The earliest water supply on modern lines was begun circa 1873, and the earliest drainage in 1890 of Rombay 22 towns By the end of 1006, exclusive of Bombay, 37 towns had a water supply and two had drainage, while the Bombay Village Sanitation Act of 1899, was in operation in 239 villages, nevertheless many towns mater country are still in want of drainage and

The Revenue of the Port Trust has shown a steady The Revenue of the Fort Trust has shown a steady amounted in the year 1906-07 in lakhs of rupees to revenue account heing 62.7 73 6, the expenditure on revenue account being 62 7, and on capital account 33 I, of Which 22 6 were and on capital account 33 I, of which 22 b were spent on new dock works. The debt of the fine amounting to roof 50 3, and the Invested Funds amounting to 10 0

The Trustees control practically the whole trade of the Port except the coal wharves of the Railways, and of the Peninsula and Oriental and the British India Steam Navigation Companies With the exception of coal, dates, kerosine oil and timber, part of it carried in square-rigged vessels is dealt the docks. The country craft go to the With the If the docks, the country craft go to the Bunders The upward tendency under nearly eventeem is marked The Merewether Dry Dock was occupied for 278 days by 166 vessels of 539,842 tons including the Vacedonia 530 feet 4 inches long, and 64 feet 4 inches beam, of 10 512 tons, the largest vessel to seed were the S Chubra of 26 feet to the port in 1906-07. The deepest draught that entered the port in 1906-07. The deepest draught vessels were the 5. S. Chupra of 26 feet 10 inches in 1907,850 tons were dredged in docks and channels outward to be the port is being extended and connected every The Port is being extended and connected every where with the railways By the Maragon-Sewn Works, 518,38 acres will be reclaimed Is in progress and a shoal in front of it is being removed The vessels using the Port were 4 new dock

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The Bombay Chamber of Commerce consists of 2 honorary and 206 ordinary Members years advocated the construction of the Nagda-Muttra Railway, which was surveyed in 1892-95, and is now under construction and when completed, will chorten under construction, and when completed, will shorten They have for the distance to Delhi or Muttra by 93 miles and Agra by 50 miles The complaints of shortage of wagons

the three railways serving the port have been bitter and persistent for many years past. The most important points taken up by the Chamber are the following -They objected to the Gold Standard Reserve being diverted to railway expenditure They consider that manufacturers in India should be encouraged to extend their works by assuring them such increased and continuing orders which the Government might consider advisable, and place a much larger share of their orders They urge a simplification of tariffs on the railways, improved road communication in the city by the extension of the tramways the opening out of the Pench coal-fields in the Central Provinces, whereby a practically unlimited supply of cheap coal would be available for Ahmedabad and Bombay the abolishment of the tax on sugar and the freeing of the people's food from local taxation They complain of insufficient water supply, they consider octroi should be abolished, and they welcome motor cabs if they be geared to a maximum moderate pace

BOMBAY STATES

Bombay States—Cover an area of 65,761 square miles, in which there are 29 towns and 14,995 villages, with 6,908,648 inhabitants, of whom 1½ million are urban

BURMA

Burma, including Shan States, Chin Hills, and Karenni —Covers 236,738 square miles, in which there are 52 towns and 60,395 villages, with 9,237,654 inhabitants, mostly Buddhists, of whom only 807,948 are urban In Lower Burma the birth rate in 1906 was 32 3, the death rate 27 1, in Upper Burma the figures were 34 2 and 26 2 Burma is watered by the Irrawaddy and Salween rivers The delta is flat, inland there are rolling downs and hills while it is mountainous in the north Rice is the chief staple, millet, cotton, sisamun and tobacco are grown and the forests yield good timber—especially teak Jade and ruby are mined, and the production of petroleum bids fair to supply all the wants of the Empire The valley of the Irrawaddy, including Upper and Lower Burma, is in the centre, the backbone of the Yoma mountains is on the western margin of that valley, the hill country of the Shan and other wild tribes on its eastern edge which borders on the frontier states of the Chinese Empire, the coast strip of Arakan lies between the Bay of Bengal and the mountains, and the long isolated coast strip of Tennaserim lies between the Bay of Bengal and Siam The central valley and the two coast strips are extremely fertile, teak and other valuable torest trees and products grow on the outskirts of the hilly tracts, the seaboard is indented with numerous creeks and the whole of the level country on the coast and in the lower Irrawaddy valley is one vast rice-field The rivers float down the timber, etc., from the forests in the north, and steamers handle the other products, the navigable part extending beyond Bhamo, or 900 miles from its mouth A metre gauge line runs north from Rangoon to Mandalay on the left bank of the Irrawaddy, and thence north-east to Lashio on the road to Kunlong There are branches in the south from Pegu to Martaban, and from Insein to Prome, with a short branch to the left bank of the same big river, opposite to which lines run to Bassein. On the right bank of the river opposite Mandalay there is a line from Sagaing to Myitkyina nearly due north, and a short one on the west to Alon. There are three schemes for joining up the Assam and Burma Railways, viz, the Hunkong Valley route from Mogaung (near Myitkyina towards Dibrugarh, the Manipur route from Kyathin towards Lumding, and the Aeng Pass route from Meiktila, Pyinmana and Prome to Chittagong. Mandalay contains 183 816 inhabitants, with a death rate of 57 1 and Rangoon 234,881, with a death rate of 47 6

The Commissioners for the Port of Rangoon are constructing new wharves and reconstructing old ones An expenditure of 125 lakhs has been sanctioned for a more or less experimental scheme for training the river and stopping erosion The Port is progressing The revenue in lakhs of rupees in 1906-07 was 203, the expenditure 20 0, besides a capital expenditure of over 58 o out of 89 o sanctioned for works, 66 of have been spent in dredging approaches and other works and in surveying the river and its banks 1,431 steamers of 2,657,565 tons, and 195 sailers of 33,023 tons entered the Port, making a total of 1,626 vessels and 2,690,188 tons Of these 416 steamers were of over 4,000 tons Of those that left the Port, 112 drew 22 feet, 87, 24 feet, 93, 25 feet, 41 over 26 feet, and 3, 26 feet 1,001 vessels used the Commissioners' moorings and 1,227 steamers the jetties and pontoons

The Imports are given below in thousands —

IMPORTS

Ale Beer, Porter	cases	59 8	Machinery	tons	2
Do	casks		Matches	packages	39
Betel Nuts	tons	16	Metals	tons	1
Bricks and Tiles	1,	8	Oils		89
Cement	,	13	Oilman Stores	packages	266
Candles	cases	28	Paints	tons	2
Coconnuts	tons	13	Paper	77	5
Drain and Wate	r	-	Piece Goods	prekages	110
Pipes	**	7	Raw Materials	tons	6
Earthenware	packages	358	Sugar and Sugar		
Flour	tons	16	candy	**	17
Fish and Prawns		11	Spices	**	ī
Glassware	packages	32	Seeds	1)	10
Gunnies	bales	52	Tobacco	15	6
Grain, Rice	tons	8	Twist and Yarn	packages	77
Other Grains	1)	13	Vegetables Truits		• • •
Haberdashery	packages	18	etc	tons	25
Hardware	"	45	Wines and Spirits	cases	92
Do	tons	26	Do	casks	2

Nearly 1,264,400 maunds of imported salt paid duty in Burmese ports during 1906, of this 43 per cent was from the United Kingdom and 35 per cent from Germany, English salt predominated from 1888 to 1897, German from 1898 to 1905, when England again took the lead

nue and expenditure of the in 1906-07 was Rs 30 o lakhs, the outstanding loans amounted to Rs 122 5 lakhs, the sinking fund being Rs 7 6 lakhs the incidence of direct taxation and that of income respectively were Rs 8-12a and Rs 13-12a. The town is lich and can pay for its wants, the pressing ones being the improvement of the sewerage, the water supply, the roads, and the regulations of the milk supply. There are 43 municipalities in the interior

with 537 members, of whom 537 are ex-officio, 168 are nominated and 71 are elected. Their total income was only Rs. 30.4 lakhs, there being no octron in Burma. There are no local boards in Burma district funds are under the control of Government officials, and there are 36 of these funds with an income of Rs. 35.7 lakhs and an expenditure of Rs. 33.4 lakhs. Those in Lower Burma are the largest, they are known as the District Cess Funds and include the proceeds of a 10 per cent cess on the land revenue and they spent Rs. 13.4 lakhs on public works.

The ordinary revenue of the Port I rust in 1906 of was Rs 19814hs and the expenditure Rs 203 14khs the capital expenditure having been Rs 587 lakhs, the total debt amounting to Rs 1080 14khs. Out of sanctioned estimates for Rs 890 14khs, Rs 660 lakhs have been spent on port works, the truming of the Rangoon river is in hand, and very rapid progress has been made in the works needed for the proper equipment of the Port 581 vessels in cargo nearly all steamers, were cleared out of Burmese

Ports, having a tonnige of 1,117,490

The sewerage of Rangoon, which is on the Shone ejector system, has to be extended is the town grows. East Rangoon is being drained and reclumed with earth brought by rul—a profitable enterprise the Lanmadaw quarter is also being reclaimed. The witer works which have cost 46 lakhs, are insufficient for growing needs and will have to be extended. Sanitation in the interior is very backward, a conservancy scheme for Mandalay will have to be carried out.

The receipts from I and Recenue were (in laklis) 385 6, the expenditure 63 0 Licise brought in 97 7 and Income Tax 19 9, the incidence being Rs 2 8a in Rangoon On Civil Works 124 0 were spent Village money-lenders charge from 24 to 50 per cent, the Co-operative Societies 15, and allow 9 per cent on

deposits

CENTRAL INDIA AGENCY

Central India Agency —Area 78,772 square miles, with 80 towns and 33,282 villages, containing 8,628,781 inhabitants mostly Hindus, of whom less than a million were urban. The Agency includes nine groups of Feudatory States under the Governor-General's Agent for Central India They are Bagelkhand, the Bhil Agency or Bhopawar the Deputy Bhil Agency Bhopal, Bundelkhand, Indore, Guna, Gualioi and the Western Malwa Agency Most of the States have numerous dependencies, whose subordinate rights are guaranteed by the British Government This region lies to the North of the Central Provinces and is bounded on the south-west by Bombay, and, going round with the clock, Rajputana, the United Provinces and Chota Nagpur on the south-east Drought and consequent scarcity and famine are not unknown, but the results have been greatly mitigated by the great systems of railways which intersect the country in every There are many rivers, but most of them run very low in the hot season Iron, coal, copper and limestone abound, also very good building stone 1,091,210 maunds of salt were consumed Some 15 miles north-east of Panna in Bundelkhand is a very valuable adamantiferous tract which is not worked to

the best advantage. I very state his its capital, which accounts for the numerous towns but none of them have over 100,000 inhabitants.

CINTRAL PROVINCES AND BERAR

Central Provinces and Berar — Are i 100,345 square miles, with 52 towns and 60,395 villages and 11,901,670 inhabitants mostly. Hindus, of whom nearly 14 million are urban. The birth rate in 1906 was 51.7 and the death rate 43.5. There are of Co operative Credit Societies, urban 7 with 716 members, rural 63 with 2.870 members. Berar is on the south-west of the region and is leased in perpetuaty to the Government of India by the Nizam of Hyderichal. There are 15 Feudatory States and the chief towns are Nagpur with 127,734. Jabalpur a great ruly is centre. Significant important canton ment, and Kampti.

There were 138 estates under the Court of Wards at the end of September 1906 with a total gross income of over 10 lakhs and an indebtedness of 8.3 lakhs

There are 58 municipalities within the Province Their receipts of which nearly a third were from octrol were (in Tikhs of rupees) 255 and their expenditure 229 of which 56 per cent was on

5 initation

On the south-west, the area is bounded by Hyderabad then Central India Bengal and Madris it is a fully jungly land and many aboriginal tribes are The country is being opened up by means of roads and by numerous branch-lines under construction or proposed linking up the three great rulw is systems which serve it, it. The Great Indian Peninsula the old Indian Midland, and the Bengal-Nagpur Rulways. It is also intersected by many streams and rivers, tributaries of the Tapti, the Mahanadi, the Godaveri, and the Nerbudda There are coal fields some of them, such as the Pench, awaiting development, and iron-ore, rice, wheat, millet, pulse oil seeds, spices and tobacco, flourish where cultivated besides cotton, of which Berar yields the finest in India 2,468,497 maunds of salt were consumed Messrs Tata & Sons are extracting manginese ore at Manyan. The net revenue of the Province (in Inkhs of rupees) was 2940, the expenditure 2269

The receipts from I and Revenue were (in Inkhs) 1707, the Expenditure 33.4 Excise brought in 38.4 and Income I ax 5.9 On Civil II orks 57.2 were spent

CENTRAL PROVINCES STATES

Central Provinces States—Area 31,188 square miles, with 11 towns, 8,290 villages and 1,631,140 inhabitants, of whom 53,000 are urban, under numerous minor rulers

Coorg

Coorg —Arca 1,582 square miles, with 5 towns and 479 villages and 180,607 inhabitants, the majority of whom are Hindus—The birth rate in 1906 was 26 I, the death rate 29 3—There are of Co-operative Credit Societies, rural 11 with 957 members—A small British Province in the south-west of the Madras Presidency, of which the Resident at Mysore is the

Chief Commissioner The main rivers are tributaries of the Cauvery and the chief town is Merkara, situated on a tableland 3500 feet above sea-level Stone and laterite is quarried, gold has been found, and rice is cultivated in terraces, but it is as a coffee-growing district that the Province offers the best opening for enterprise The amount spent on Civil Works was Rs 34 lakks

EISTERN BENGIL AND ISSIN

Eastern Bengal and Assum —Together cover 106 130 square miles, with 61 towns and 91 760 villages and 30,961,459 inhabitants of vhom only 7 of a million are urban, and of whom in Eastern Bengal two-thirds are Mahommedans the percentage for the whole province being 58. The birth rate in 1906 was 37 4, the death rate 31 7. There are of Co-operative Credit Societies, urban 12 with 1,020 members rural 48 with 2 424 members. Dacca on the Meghna river is the chief town and has 90 542 inhabitants. Assum forms the north-eastern portion of the province, and a mountainous range divides it into the Surma and Brahmaputra valleys, the first on the south with Gulhatians a chief town, the second on the north with Sylhet This range comprises the Naga Khasi Jaintia and Garo Hills

Municipalities—Fifty of the towns have some form of Municipal Government 44 of these may be classed as important and in 34 the elective system is in force. About 17 per cent of the urb in population ratepayers, and the average incidence of taxation is are Rs. 1-5a. 11p. per capita. 15 of these bodies have

an indebtedness of Rs 22 lakhs

District Boards -In Lastern Bengil there are 14 district and 33 sub-divisional Local Boards, besides 10 Union Committees In Issum there are 19 I ocal Boards constituted under executive rules of which a large proportion of the Members are European planters Their expenditure amounted to Rs 44 4 lakhs, of which Rs 264 lakhs was devoted to Civil The principal port, Chittagong is at the mouth of the Neghna river, this is the name of the mighty Brahmaputra where it debouches into the Bay of Bengal The number of vessels in cargo entering the Province in 1907 08 is set down as 22, with a tonnage of 61,463. The port is served by the Assam-Bengal Railvay, which forms a chord to the great bend of the Brahmaputra from Dibrugarh in the north, with short branches to Talap, Lido Gauhati, Silchar, Chandpur, and Sahebghatta respectively, other branches are under construction or proposed, as well as short lines from Jaganathgarh and Narayangani passing through Dacca. A line is being constructed from the Eastern Bengal Railway at Nokrajarh to a point opposite Gruhrti, and mrny other similar connections are proposed, but they do not The three proposals to join up cross the big river with the Burma Railways have already been men-The total expenditure on Civil Buildings and Roads in 1906-07 was Rs 75.7 likhs The net revenue of the municipalities is put down at Rs 14.2 lakhs, the expenditure Rs 13 8 lakhs, of which about half was spent on Sanitary Works which are budly wanted, that of the whole Province being respectively

Rs 443 2 likhs and Rs 256 8 likhs. The staple products are Jute Oil-seeds Rice. Sugar, Tea and Tobacco. The area for cultiviting this is capable of almost indefinite expansion throughout Assam. The average consumption per head of salt was 66 lbs.

The receipts from Land Recents were (in lakhs) 1935, the expenditure 345 Excise brought in 632 and Income Tax 100 On Civil Works 757 were spent. The village-money lenders charge from 18 to 37½ per cent, whereas the Co-operative Societies grant loans at from 9 to 18¾ and allow 61 per cent on deposits

HYDORABAD

Hyderibad is a Native State as large is Italy having an irea of 82,698 square miles in which there are 78 towns 200,110 villages and 11,141 142 inhabitants, mostly Mahommedans. This is the premier Mahommedan State in India and its ruler is called the Nizam It is bounded on the west by the Bombay Presidency, from which it is divided by the Kistna river. It is traversed from vest to east by the Godavers river which also runs along the greater part of its Eastern boundary and the tributaries of which water the northern portion. The capital Hyderibad and its suburbs contain 448 466 inhabitants. The gross revenue of the State is Rs 375 lakhs. The Singareni collieries are in this State and the output therefrom is approaching 500 000 tons other minerals and gems to the value of Rs. So lakhs are also produced. Rice is grown on the plants but the main crops are cotton on the black soil maire and millet oil-seeds sugarcane and wheat

KASHMIR

Kashmir — Arca 80,000 square miles containing 2 towns 8 949 villages and 2,005 578 inhabitants mostly Mahommed us. The capital is Sringar with 122,618 inhabitants and the State comprises Jammu Rashmir, Ladakh Gilgit and Baltistan. It is ruled by a Maharaja (with a British Resident) and the revenue amounts to Rs 86 3 lakhs 563 253 maunds of salt were consumed. The main villey of Kashmir is an extensive plain about 5 200 feet above sea-level the alluvial tract in its centre being intersected by the Jiclum and its tributaries. Several rulway lines are being considered, which it is proposed to work by electricity are —between Jammu and Srinagar and then and Muzafarabad to join the North-Western Railway between Madura and Saraikala.

MADKAS PRISIDENCY

Madras Presidency—Has an area of 141,725 square miles, containing 234 towns, 54,610 villages and 38,209,436 inhabitants mostly Hindus, of whom about 4½ millions are urban. The birth rate in 1906 was 30 9 the death rate 27 4. There are of Co-operative Societies urban 22 with 3 576 members, rural 41 with 2,863 members. The capital, Madras contains 509,346 inhabitants, with a death rate of 46 9. Other important towns are Madura 105,984, Trichinopoly 104,721, Salem and Calicut. The Province stretches along the whole eastern coast of India from Orissa to Cape Comorin, and right across the southern half of the peninsula to the western coast of Malabar. The

comparatively low (so called) Eastern Ghats lie alto gether in Madras and are pierced by the three rivers Godaveri Kistna and Cauvery, which all rise in the Western Ghats and run in a south-eisterly direction into the Bay of Bengal besides these there are six smaller rivers debouching on the same coast. Both coasts are characterised by black waters which run parallel to them and afford sheltered communication by water in long stretches. The Western Ghits rise abruptly from the coast it i distince of jo to 50 miles, and on the east of them the ground falls to the great central and elevated plateau which also slopes down to the Eastern Ghats the comparatively lower range of hills at a greater distance from the coast line which has been pushed out by the deltas of the big rivers. The products of the land are rice cinchon; coffee cotton and other fibres, indigo millet and other food grains oil seeds spaces tobacco and ten there are not many large factories and no good ports even Madras being an open roadstead artificially formed into an harbour at enormous expense. There are 65 salt factories of which 22 are under Government management average consumption per head was 18 7 lbs including Mysore, Coorg and the Native States except Iravancore and Cochin The Province is well supplied with railways, especially along the east coast, where the lines are taken over all the rivers, but the gauges are inextricably mixed. There are great gaps in the line on the west coast, some of which it is proposed to close and the connection with Ceylon will be made before The rulways are the Bengal-Nagpur the Madras and Southern Mahratta, and the South Indian There were 26 estates under the Court of Wards at the end of June 1907, with a total gross income of over 30 lalks, and a balance to the good of 63 lakhs

Municipalities - The income of the Madras Cor-, oration in 1906-07 was Rs 216 lakhs the taxation ter capita amounted to Rs 2-9a there are no octroi duties but a principal tax of 10 per cent on the annual value of buildings and land, besides a six per cent water tax and a 11 per cent lighting tax professions and trades, vehicles and animals are all taxed. The expenditure was Rs 198 lakhs, chiefly on drainage a filtered water supply scheme to cost 23½ lakhs is also in hand. The municipal debt amounts to Rs 684 lakhs and the sinking fund to Rs 206 lakhs. In the interior there are 60 municipal councils the percentage of the population entitled to vote being 2 I, there are no octroi duties anywhere and the incidence of taxation is nearly Rs 1 3a per capita of the municipal population. The expenditure was Rs 393 lakhs, of which Rs 87 lakhs were on water and drainage, buildings and roads, the outstanding debts being Rs 24 lakhs There are 23 district boards and 82 taluk boards and 382 village unions. Their income was Rs 1306 lakhs, their expenditure Rs 114 I lakhs, of which Rs 52 I lakhs were on public works, the incidence of taxation was 3a 7p per capita and a railway belonging to the Tanjore District Board brought in a net profit of 5 6 per cent The sanitation of the Province is very backward and works 'to cost 30 lakhs will have to be undertaken

The ordinary revenue of the Port Irust was Rs 99 falls and the expenditure Rs 54 falls of which Rs 36 lakhs was on expital account besides Rs 12 o likhs on this account. Rs 178 5 lablis have been spent and Rs 555 lables are to be spent for new works and yet the iffairs of the Trust are in such a flourishing condition that there is little risk of enhanced harbour dues in spite of the enormous past, present and future expenditure - 890 steamers of 1,831 561 tons and 9768 ulers of 73 558 tons entered the harbour in 1907 of The Chamber of Commerce consists of 3 honorary and 36 ordinary members. A proposal for expanding the vorling conveniences of the Port is undir consideration. The net revenue of the chole Province in the previous year vas Rs 1 259 5 likhs and the expenditure Rs 553.3 lables

The receipts from I and Recente vere (in 14khs) 547 of the expenditure 1142. I xeise brought in 216 1 and Income I av 274. On Civil Works 140, vere spent The village money lenders charge from 0 to 15 per cent the co-operative societies 9, and they allow 7 per cent.

on deposits

MADRAS STATES

Midras States — Ire 19969 square miles 17 toons 4 997 villages and 4 188 086 inhabitants mostly Hindus of whom only 202 000 are urban. They are Travancore on the south vest coast Cochin just north of it Pudda Kottai a small inland tract in the south east, Binganapalli in the north and Sindur also in the north to the vest of the list both of them being very In the veur ended August 15 1906 the revenue sm ill of the Iracancore State was Rs 80 o lakhs, the expenditure Rs 1041 lakhs of which Rs 215 lakhs were on public works. The total external trade amounted to Rs 252 6 lakhs of which exports formed 63 per cent this showed an increase of more than 97 per cent over the preceding year. In Cochin State, during the same period, the reccipts amounted to Rs 334 lakhs the expenditure to Rs 339 lakhs, of which Rs 30 lakhs were on public works including a forest tramway of which 261 miles were open for traffic. For the vert ended June 30, 1907, the revenue of the Pudda Kottai State was Rs 167 lakhs, and the expenditure Rs 22 lakhs

MISORE STATE

Mysore State—Is 29 444 square nules in area, with 128 towns, 16,884 villages and 5,539 390 inhabitants, of whom 722 000 are urban. The town of Bangalore has 159,046, and Mysorc getting on for 100,000 inhabitants. It is under the direct supervision of the Viceroy and has an "inferior" Resident The revenue of the State in 1906-07 was Rs 221 6 lakhs its expenditure Rs 2023 lakhs. The aggregate expenditure on Public Works was Rs 47 1 likhs, of which Rs 59 lakhs was on the Cauvery power scheme The total capital invested in the scheme up to June 30, 1907, was Rs 550 lakhs and the net revenue realised in 1906 07 was Rs 177 lakhs There are 401 miles of the metre gauge and 10 miles of broad gauge railways in the State, worked by the Madras and Southern Mahratta Gold to the amount of Rs 3345 Inkhs was obtained from the Kolar Gold field in 1906, this being

the first year in which the increase of gold production from this field received a check. Manganese was also worked to an increasing extent. A ridge 3,000 feet high divides the State into two nearly equal parts, with spurs enclosing the tributaries of the Kistna on the north, and the Cauvery on the south. The hill country on the west called the Malnad is mostly covered by forest lands, the Maidan or plain country east of this is very fertile and grows areca and cocoanut palms, cinchona coffee, cotton, millets, sugarcane, rice and tea.

NORTH-WEST FRONTIER PROVINCE

North-West Frontier Province —Area 16,466 square miles, 20 cities, 3,348 villages and 2,125,480 inhabitants, mostly Mahommedans, of whom 270,000 are urban, the birth rate in 1906 was 386, the death rate Its chief city, Peshawar, has 95,147 inhabitants It consists of part of the Hazara, the Peshawar, Kohat, Bannu, and Dehra Ismail Khan districts, and the Chief Commissioner has political charge of Kurram, Malakand (Dir, Swat and Chitral), Khaibar, Tochi, Goral and Shirani There is not much cultivation in the Province, the Indus river divides it from those on its eastern and southern boundaries, and it is watered by the Cabul uver, a tributary of the same There were 8 estates under the Court of Wards and their assets (over 3 lakhs) more than covered the i There are 10 municipalities with an liabilities income of Rs 53 lakhs, chiefly derived from octroi, and an expenditure of Rs 54 lakhs, chiefly spent on "Public Health, Convenience and Safety" There are also 5 districts with 216 members, of whom 49 are officials and 26 European revenue of the Province was Rs 372 lakhs and the expenditure Rs 73'o lakhs The consumption of salt was maunds 155 034

PUNJAB PROVINCE

Punjab Province - Has an area of 97,209 square miles, 171 towns, 32,663 villages, and a population of 20,330,339, of whom 18 millions are rural, and more than half are Mahommedans The birth rate in 1906 was 43 7, the death rate 37 0 The chief city, Lahore, has 202,964, with a death rate of 38 99 Delhi 208,575, with a death rate of 63 08, Amritsar 164,429, with a death rate of 49 42 and Multan less than 100,000 inhabitants. The income tax in Lahore amounts to 4a per capita and in Delhi 11a Rainfall being scant and big rivers plentiful, irrigation is carried on on a large scale and enormous crops are raised of barley, cotton (including the North-West Provinces, 1,469,000 acres were planted and yielded 370,000 bales of 392 lbs), maize, millet, oil seeds, pulse, sugar and wheat (the area under this was 7,366,500 acres yielding 2,618,900 tons) These with rock salt, form the principal exports The salt mines are the Mayo, Warcha, Kalabagh, Kohat and Mandi mines, and the Sultanpur brine The land gets its name from Panch-ab, or five rivers, that is the Jhelum Chenab, Ravi, Beas and Sutley-but the Jumna or Ganges forms its eastern boundary and the Indus its western There were 45 estates under the Court of Wards with a total gross income of 14 lakhs

Municipalities—In 1906-07 there were 138 municipalities, but some of these are so small that they will probably be abolished. Their receipts were Rs 587 lakhs. Their expenditure Rs 571 lakhs, the outstanding loans amounted to Rs 523 lakhs, and the average incidence of taxation per capita is Rs 1-12a. Octroi in 134 towns brought in Rs 325 lakhs. There were 29 District and 20 Local Boards the year's income of the District Boards was Rs 424 lakhs, the expenditure Rs 389 lakhs, of which Rs 167 lakhs was spent on roads and other public works. The net revenue of the Province was Rs 4291 lakhs and the expenditure Rs 2954 lakhs, of which Rs 654 lakhs were on Civil and Vilitary work.

The whole Province is served by the North-Western Railway system and by lines worked by it. There were 21644 miles of lines under construction, or sanctioned for construction, on 31 March 1908,

and many projects for others

The area irrigated by Government canals in 1906-07, was over 6 million acres, an increase of over 50 per cent in \$1\times\$ years. The assessed revenue averaged 13 62 per cent on a capital outlay of Rs 1,218 I lakhs the lowest being 5 21 per cent on the Indus Inundation Canals, the highest 27 05 per cent on the Sidnai Canal Rs 224 9 lakhs were spent on Capital Account during the year, of which Rs 65 3 lakhs were spent on the Upper Chenab the Upper Jhelum, and the Lower Bari Doab Canals which are still under construction

Including Imperial, Provincial and Local, the expenditure on Civil Works was Rs 70 9 lakhs, of which Rs 400 lakhs were on feeder roads. The Ludhiana water works which have been sanctioned, are estimated to cost Rs 43 lakhs, and drainage schemes are in progress at Delhi, Multan and Rawalpindi.

More than one-third of the whole Indian production of Beer is brewed in this Province. The output of the Murree Brewery alone being one million gallons. The beer brewed in India fetches from

12 to 16 as per gallon

There are 182 Factories employing 26,875 hands Co-operative Credit Societies -The village money lenders charge 18 to 24 per cent, the Socioties 9 to 93, and pay 5 per cent on members' deposits There were 3 urban and 174 rural societies with 279 and 17,254 members and incomes of about Rs 900 and Rs 30 lakhs respectively, besides two grain banks. The Excise Revenues amounted to Rs 40 0 lakhs, of which Rs 27 5 lakhs were due to beer and other liquors The trade in cocaine is under regulation. Malwa opium pays Rs 4 and that from Kashmir and the Hill States Rs 2 per In Land Revenue according to the Finance and Revenue Accounts for 1906-07, the receipts were Rs 358 9 lakhs, and the expenditure Rs 46 r lakhs The Income Tax realised 137 lakhs and its incidence amounted to IIa in Delhi and 4a in Lahore The birth rate of the Piovince was 437 and the death rate 37 per mille 2,533 089 maunds of salt were consumed

PUNJAB STATES

Punjab States — Area 36,532 square miles, with 57 towns, 10,997 villages and 4,424 398 inhabitants, of whom nearly 4 millions are rural

Irrigation—The branches of the Sirland (in d within the States irrigated 173 203 acres and earned 9.65 per cent on a total capital outling of R 13.1 14klis The following are the names of the States in Alphabetical order—Bahaw dpur Bash dir Pila pur Approvided order — Bin wapur Bisham van pur (hamba Dujana Faridkot Jind Kalsa Kapurihala Keonthal Johan Maler Kotah Mandi Naha Naha Patandi Patala Sirmin Sulet and other madi Sarato and the Sinda Hama Sulet and other Small States in the Sml Hills The area is intersected by Ruly W meluded in the North We tern Steeten by the states have contributed largely to their cost. The Pittill State one of the large t contributors to the Rule its spent shout Re 120 lakhs on Public Works in the last year

Rapput ing Agency - Irea 127 541 square mile RAJPITANA ACINCA continues 125 toy ns 20 901 villates and 0.723 301 mhabitants mostly Hindus of whom nearly 11 million inhabitants mostly limitudes of vinomine tray a minimon are urban. It comprises 16 Rapput 2 Jatifi and 1 Mahommed in States all of which have British Real dents under an Agent to the Governor General principal states are Bikaner Jaipur Justimer Jodhpur (Mirwir) and Idapur (Mewar) principal city is Jappir with 160 167 inhabit into The agency is bounded on the north indeest by the Punjab and the United Provinces on the vest by Sind and on the south by the Central India Acres The runfull is scanty and a large part of Bil mer develor it from north uses to couth out into the Justines and Jounpul is acres the acres and the divide it, from north west to south east into the witershed of the Limit river on the vest and of the Chambal river a fairly feetile region vinch bounds and a revenue of Rs 20.9 likhs and a reservence of Rs 20.9 likhs and a and Jupur one of 2 658 666 mostly Hindus and a revenue of Rs 615 likhs 944 977 munds of silt were consumed. The total outlay on Public Works in the Agency during the 18 months ended September 30, 1906, was Re 66 lakhe Winy projects for pro-30, 1900, Wits IX OU FIRMS Willy projects for protective irrigation works are under consideration and seven of them estimated to cost Rs 30 lakhs have been put in hand by the Bundi Karauli Shahpuri and fonk States the various States traverse the area from cast to west and from north to south East of the latter a complete network of lines has been established by similar agency. The Jupur Durbar are building I line from Jaipur to Widhopur, 62 84 miles and the Dholpur Durbar one from their capital to Bari 1925 miles The Jodhpur and Bikaner Durbars are constructions of right Position (1) to the months of the position of structing a Light Railway to tap the produce (cotton especially) of the land watered by the Jamrao Canal

Sind Province—Area 47,065 square miles with hom about 400,000 are urban Karach, the principal whom about 400 000 are urban Karach, the principal city, has a population of 116,863
The Municipalities, and I ocal Roards are included in Rombay District and Local Boards are included in Bombay

Karachi Port —388 steamers of 860,062 tons and Narachi Fort — 300 Steamers of 000,002 tons and 214 saflers of 15,283 tons cleared in 1907-08 The Port Trust revenue receipts were Rs 28 4 likhs

and their expenditure Rs 194 lah and they lake And their expenditure Rs Tog Lish and they love held by the erry fund of Pe 200 lish. Be to their total highlighten party or; dorn the Pe 101 I'm total highlighes (too) at R. St. 5 list The common as of the more expenses of the port

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The trade of the port

Listin in tops to 3 550 k 153 k in 1697 in 1693 the

Value of processors and vara in pertent at each

tesser the other principal and reports very contest. the time of inperior 451.5 tri to e to 7056 p. tool, for metal 573 ell lesso in 29.2 en at 1733 received to both 176 cotto 1 bab 354.5 finelly 23.6 finelly 23.6 finelly 23.6 finelly 23.6 finelly 23.6 finelly 23.6 and the 65% transite (the mite) 34 rys hur use can be broked then who from worth Week Rulen Station to Parello 11 Po to Giver $GI_{1-\alpha}$ $\begin{array}{c} GI_{3} = \alpha \\ Montre \ il_{r} = \sum_{i,j,k} I_{r} \ horn = I_{3} \chi_{r} \cdot p_{j} \cdot d = I_{3} \cdot I_{3} \cdot I_{3} \\ Sind = \sum_{i,j,k} \sum_{i,j,k} I_{i} \cdot m_{i} = I_{3} \cdot \sum_{i,j,k} I_{3} \cdot m_{i} \cdot I_{3} \cdot I_{3} \\ Sind = \sum_{i,j,k} I_{i} \cdot m_{i} \cdot I_{3} \cdot \sum_{i,j,k} I_{3} \cdot m_{i} \cdot I_{3} \cdot I_{3} \cdot \sum_{i,j,k} I_{3} \cdot m_{i} \cdot \sum_{i,j,k}$ ing both for tell ve el on the vest ide of the manner of t manning the me in the me treat minoring the very second treatment of the port from Hyderabad

Mr Culture "There are is million acres under crop to be be at exalling a reof thich 31 rullion were are reminer were some corp. (in ils and the tree so tree ted is increasing larger The Vield of Vheat in 1605 of v is 160 200 tons con imption of east per capative 38 0 23 lbs

Ruly avs — The North We tern broad fame lines on tich side of the Indus John at Kotri and bring produce than side the ve els in the harbour vine promoce to the very els in the harbour vine his really and the the port for the vhole of the Punjah and the Trontier Province American Entre Inc. Connects the Frontier Province A narrow Entre une conneces and Junction of the Internal Kotri with Delhi re Jodhpur Juntion of the inex it know with pental Jumpar and there is a broad fauge branch from the same place in the direction of the Rann of Cutch and a constant branch forther each are already mated a Free in the direction of the name of cuten and a similar branch further cast is already noted a A similar branch further east. As aircian noted a line is proposed round the Rann to link up with to the harbour and a narrow k uige extension from Kotri branches, have also been proposed. The assured branches have the been proposed The revenue is Re 85 5 likhs

UNITED PROVINCES OF ACKA AND OFTHE United Provinces of Agra and Oudh - Area 107,164 Square miles with 153 towns 105 065 villages and second some standards of a towns 105 of a towns of miles and a towns the standards and the second se 45,691,782 inhabitants of whom more than 54 millions To urban, about 65 per cent Hindus and 14 per cent Habonimod inc. The barth rot. In 2006, 122 the Mrhommed ins The birth rate in 1906 was 402, the urban 1,727 with 27,420 members rural 722 with urban 1,727 with 27,420 members, rural 133 with 156.022. 30.62 Allahahad, 172.02, 26.82 Bareilly. 185,022, 39 62, Allahabad, 172,032 36 87, Barelly, 131,208, Benares, 209 331, 58 47 Cawapore, 197 170, 196 Province hes in the valley of the Ganges and its The Province lies in the villey of the Ganges and its tributaries, from which many carals are fed and the whole region is most fertile. Nami Tal, one of the local government. hill sanitaria, is the seat of the local government in the hot weither

There were 170 estates under the Court of Wards at the end of September 1906, the gross receipts of which amounted (in lakhs) to 1083, and their total debts previous and subsequent to assumption of charge amounted to 4242, of which 1906 had been repaid, and 1408 replaced by more favourable loans

Municipalities exist in 89 towns their income was Rs 893 lakhs, their expenditure Rs 748 lakhs The incidence of taxation was Rs I 8a per capita of the municipal population, and 23 per cent of the whole population were eligible to vote Of District Boards there are 48, with 956 members, their income was Rs 72 I lakhs, their expenditure Rs 70 6 lakhs, of which Rs 33 9 lakhs were on public works Sanitary matters have every attention and big schemes of drainage and sewerage are in progress at Agra, Cawnpore, and Lucknow The net revenue of the whole province was (in lakhs of rupees) 9773, and its expenditure 5370 of which 877 were on civil works. The receipts ind expenditure of 170 estates, under the Court of Wards, amounted to about Rs 1088 lakhs. The incidence of the income tax per capita was 3a 6p in Benares and Lucknow

Agriculture —The crop area of the autumn harvest was 24 million acres and that of the spring harvest 20 million, the principal crops being, in thousands of acres, barley, 991, cotton 1,489, yielding 638,000 bales, grain, 1,545, millets, 826, rice, 2,826, sugar, 1 387, vielding 1,264,000 tons, tea, 8, yielding 2,290,200 lbs, and wheat 1,714, yielding 2,164,500 tons 4,969,672 maunds of salt were consumed. The Agricultural Department distribute advice, implements and seeds, which are all appreciated. The village moneylenders charge from 12 to 37½ per cent on good security, the Co-operative Credit Societies 12½ per cent and they pay 6½ per cent on members' deposits. There are 270 of these societies with 44,470 members. the receipts were Rs. 13 7 lakhs, the disbursements Rs. 13 3 lakhs.

Railways are so numerous that there is not much scope for new lines, the only one of any importance that is proposed is between Cawingore and Allahabad on the left bank of the Ganges, with

branches through Rai Bareli to Fyzabad

16

Irrigation —2,588,457 acres were served by the 14,000 miles of irrigation channels. The revenue of all canals amounted to Rs 1259 lakhs and the expenditure Rs 929 lakhs. Productive works costing Rs 1,1943 lakhs yield a net profit of Rs 567 lakhs, the capital outlay in the year on all canals being nearly Rs 400 lakhs. Three protective works, the Betwa, Dassan and Ken, have cost Rs 1046 lakhs, and the total deficit (the additions to which are being rapidly reduced) was Rs 414 lakhs. On Civil buildings and roads, Rs 975 lakhs were spent by the Imperial, Provincial and Local authorities, the most important work

being a new bridge over the Jumna at Agra, estimated to cost Rs 190 lakhs

The cotton mills produced about 5 per cent of the yarn and also of the woven goods

The receipts from Land Revenue were (in lakks) 6165, the expenditure 844 Excise brought in 921 and Income Tax 214 On Civil Works 975 were spent. The village moneylender charges from 12 to 18 per cent in Oudh and Meerut and 37½ in other parts of the province, while the Co-operative Society lend money at 12½, and allow 6¼ on deposits

United Provinces States

United Provinces States—Area 5,079 square miles, with 6 towns, 3,576 villages and 802,097 inhabitants, of whom 700,000 are rural Rampur State has an area of 893 square miles with a population of 533,212, mostly Mahommedans Sanitation and lighting are being attended to and the closing balance in favour of the State amounted to Rs 24 lakhs, its revenue approximating Rs 327 lakhs

TEHRI STATE

Tehri State contains some valuable forests and is also attending to its public works, its closing balance to the good being Rs 159 lakhs

FRENCH TERRITORIES

French Territories — Chandernagore on the Hughli in Bengal is three square miles in area and has a population of 26,831 Karikal, on the east or Coromandel Coast of Madras in the Cauvery delta, has 25,000 inhabitants Mahe on the west or Malabar Coast of Madras has a harbour, an area of 1,445 square miles, with 10,377 inhabitants Pondicherry, the seat of Government, lies north of Karikal in the South Arcot division of the Madras Presidency, has an area of 113 square miles and a population of 156 094

Portuguese Territory

Portuguese Territory — Daman, between Bombay and Surat, at the entrance of the Gulf of Cambay, Diu, an island on the extreme southern point of the Kathiawar peninsula, and Goa the seat of Government. This is a territory 60 miles by 40 miles, containing 10,625 square miles, one town, the capital Margao, 407 villages, and 475,513 inhabitants. The harbour in Marmagao Bay is a good one and is served by the West of India Portuguese (metre gauge). Railway, running through the territory and 51 10 miles long, guaranteed by the Portuguese Government. It was opened in 1888, and has been worked by the Southern Mahratta Railway since 1902. The shipping and port charges conform with those in force under the Bombay Port Trust, and cannot exceed them without the mutual consent of the two Governments.



Medical Profession in India.

Bitori giving in account of modern medicine and modern medical men in India | Short reference to the modern medical men in many a short retreme to constituent Hindu systems of medicine is uppropriate the more so is there still exist a large number of In dim professors of the amend art and to the div the descendants of the old castes of , this and full mass are form no meonsiderable proportion of the Indian

omy and the national medicine of India derived their first impulses from $the_{n, thon} d$ is tronthe engeners of the national worship

renon color till has the influence in the ten hour of on m. Indian protition to polypratical tion when the me he me to prove the property of the property o

 $\begin{array}{c} \text{ Aven who is time he mode on We to r him } \\ Perhaps even increasing in the to r him \\ the s is true b s is hinter if the the C sixter i and i the i is f in i and i in i Cally in trompent and the rate of mile the rate of the

Ancient Hindu medi eme was ilso not without influence on the med-Europe and Arabia Medicine was ranked is in upareda or i supplementary revelation un der the title of Wurveda and many men still pro fess to practise what they call the Avurvedic It is to the religion of Buddhism that incient India was indebted for the best period of Hindu medicine Buddhism, closely associated with

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There are several medical works bised on the plan of the Ayurveda as the celebrated Charaka by Charak, the Bulatantra by Bhila, and the Sushruta, by Sushruta

like Christianity,

the healing of the sick

and like Christianity it

led to the establishment

of hospitals for the trent-

ment of the sick

The authors flourished

in the "Buddhistic era," and that is the most definite thing we can The Charaka is arranged in the form of dialogues

 $m_{\rm cdicine}$

between the master and his pupils. It follows the division of the eight parts of the Avurveda, the first division containing materia medica, or the enumeration, classification and uses of drugs Their phyrmacentical methods are always elaborate and often in-

liter prejudice ignost the were quite irection and body. The Sustriula bives in claborate description of the way to keep and prepare a body for dissection. Physicians and surgeons of the way to keep and prepare a body for dissection, and if the anatomy of that day is superficial it was only what might be expected in such in cirly stage of civilization

Unfortunately, instead of progress, a stage of retrogression set in as Hunter says

influence of sell - ; he Ith Th of the his topy .. dinerent due of n flumming the virial of uler and virial md the proper det for patient stite me from them in ill de enbed in considerath detail It if o treats of rosolo v dry none matomy o the body of conception and the development of the body and Inc. 1 section on toxicology and intidotes to various posons

These two vort Chirafa and Sustrues ire the foundation of numerous liter Hindu vorts on medicine and surkers and are venerated as the great ongin il depositories of the irt of medicine

surkery among Hindus It is of special interest to note that the anatomicil descriptions biven in the Sustruta shows a considerable knowledge of the elements of unitand this is a conclusive proof that the very ancient Hindu

into modern Hinduism (750-1000 AD), the shackles of caste were reimposed with an iron vigour, the Brahmans more scrupulously avoided contact with blood or morbid matter," the expiation enjoined in the Shastras became more and more rigid till dissection fell into disuse. The Brahmins withdrew from the profession and it was taken up by another caste, the Vaidyas, or offspring of a Brahman father and a Vasiva mother.

It is not, therefore, to be wondered at that the commentators and imitators of the fathers of Hindu medicine and surgery, being ignorant of anatomy, made many errors, and had to blindly follow their authorities without understanding the nature of the malady Another great set-back was the abelition of public

hospitals on the downfall of Buadhism

The Fast India Company's ships trading with India almost always brought with them qualified medical men for the medical charge of the passengers, troops and crews. Many of these medical men accepted "billets" on shore, and in this way a regular medical service grew up

As a national consequence, some kind of hospital for the treatment of the sick had to be provided, and in the very early days it is probable that temporary houses for hospitals were provided. The first hospital of which we have any record was established in 1707 in Calcutta for the use of the Company's soldiers and sailors who too often fell a victim to the unhealthy conditions of life in Bengal in those days

This hospital was a large building, 175 feet long and 60 feet broad. It was built in what is now called



THE PRESIDENCY GENERAL HOSPITAL-CALCUITA

During the succeeding centuries the art of medicine fell largely into the hands of Mahonimedan practitioners, who attended the ruling classes and the kaciraj of the Hindu became the practitioner of the villages, whose knowledge consisted (according to Hunter), of jumble fragments of Sanskrit texts, a formidable pharmacopum, supplemented by spells, fasts, and quackery

This state of things remained till 1822 when the first steps were taken by Government to establish an institution for the instruction of Indian students in the modern medical science. To this we shall revert belov

We come now to the advent of the East India Company and to the medical arrangements made by the Company lirst for the cure of its own servants and secondly, for the public benefit Garstin's Place, on the site now occupied by the Department of Commerce Office Close by was the old dome-shaped magazine and the cemetery which formed the western part of the compound of St John's Church, Calcutta

The hospital was built as the result of frequent representations from the medical officers as to its need. The Company only subscribed Rs 2,000 towards this very necessary work and left the rest to be collected by public subscription.

Captain Alexander Hamilton the sailor, who published an account of his travels in the East in two volumes, in 1744, mentions this old hospital and gives a graphic account of the mortality in Calcutta in those days. He wrote "One year I was there and there

were reckoned in August about 1,200 English, some military, some servants of the Company, some private merchants residing in the town, and some seamen belonging to shipping laying at the town, and before the beginning of January there were 460 burials registered in the clerk's book of mortality."

This appalling death-rate (of about 3%0 per mille) may be contrasted with the 12 to 16 per mille death-rate for British soldiers in India at the commence-

ment of the 19th century

It is no wonder therefore, that Captain Hamilton commented upon the convenience of having the hospital so near to the burial ground

Up to 1710 soldiers still lodged in the town, but in that year the hospital compound was walled in,

and barracks built for the soldiers

The regulations of this hospital are recorded in the consultations of 20th August 1713, and they are signed by the famous Dr William Hamilton of whom more hereafter

This old hospital was put into decent repair in 1730, and in 1736 an upper storey was built for the residence of the doctor in charge, and a dispensary or "shop for medicines"

These are recorded to have cost Rs 4,000

In 1752 we find the doctors applying for beds for this hospital, and tibtaposles or wooden beds ("charpoys") were provided. In 1760, Members of Council were directed to take it in turns to visit the hospital every week, and the proceedings record much bickering between the medical men in charge and the Council on the cost of the upkeep of the hospital, but by that time the old one had been destroyed in the capture of the city by Siraj-iid-Daula in 1756

The second hospital seems to have been a temporary one established inside the old Fort, after the recovery of Calcutta, and the statistics of its working in 1857 give a vivid idea of the diseases of those days

Between February 8th and August 8th of that year, 1,140 patients recovered, of those 54 were from scurvy 302 bilious fever, and 56 bilious colic 52 men buried, Between 7th August and 7th November 717 fresh patients were taken in of those 147 were in putrid fevers, and 155 in putrid fluxes, and 101 were buried "

The management of these early hospitals must be considered to be extravagant and often careless. The medical officers complained that they could not diet the sick at the rate of 6 rupees a month per head, and the Council granted an additional allowance of Rs. 2 As many of the patients were European soldiers and sailors, this cannot be considered extravagant even in the cheap days of old. Even now 6 or 8 rupees is month would be amply sufficient to diet Indian patients.

More and more use appears to have been made of the hospital and by 1762 there were many complaints as to the overcrowding and want of accommodation. The Council, therefore as a temporary measure, agreed to build a hospitil, "near Surman's Gardens," that is in Kidderpore—"with fell trees and covered with straw under the direction of Captain Green, upon the same construction with those he built at Ghyratty, which are found to be extremely good and wholesome lodgings."

It is not quite clear from the records that this temporary hospital was ever occupied, most probably it was, but it was admittedly a temporary measure. It was at first intended to build a new hospital and to close the burial ground, "which is very detrimental to the health of the inhabitants." The old Fort had by this time been converted into the Customs House*

Before we go on to describe the foundation of the Calcutta General Hospital, we may say something of the other medical institution of the early days

Small-pox in those days was, of all diseases, the one to be dreaded in all countries and especially in India Inoculation against small-pox has prevailed from time immemorial in India, and appears to have been introduced among the European population of India about the year 1785 In 1785 an Inoculation Hospital was opened at Dum-Dum, and a considerable number of soldiers and soldiers' children were iroculated

However, Jenner's great discovery of vaccination received prompt recognition in India, where the dread of small-pox was great and the dangers of inoculation recognised. So within 15 years of the establishment of the Inoculation Hospital the practice was super-

seded by Vaccination

In December 1802 the Calculta Gazette contained the announcement that the Governor-General in Council thanks Dr James Anderson, Dr John Flenung, Dr Russell, Di Hare and Dr Shoolbred, "for their successful introduction of vaccination into Calcutta, and on 3rd February 1803 the same Gazette announces that "vaccination will be performed free at the Native Hospital in Dharamtolla, on Tuesday and Friday mornings Dr Russell was made the first Superintendent of Vaccination"

The great necessity for, and the great value of vaccination in a community like that of Calcutta a hundred years ago is emphasised by the prompt recognition of the value of Jenner's work, and the people of Calcutta subscribed the large sum of £4,000 sterling for a testimonial to Jenner Vaccination had previously been introduced into Madras, and it is to that Presidency that India is indebted for the introduction of this measure, which has done more for the public health in India than any other single scheme ever introduced by the Sanitary Department

In October 1792 the Calcutta Gazette announced that it was intended to open a hospital for the benefit of natives other than the military hospitals for sepoys. It seems to have been opened in September 1794 and is the hospital above referred to in Dharamtolla.

We must now return to the history of the foundation of the Calcutta General Hospital which still flourished in Calcutta, and the last of the old buildings only disappeared during the year 1908—the new buildings have been under construction one by one for the past ten years

Until the publication of an article by the late Major D M Moir, 1 Ms, when acting as Surgeon Superintendent in 1902 (see *Indian Medic il Gazette*, January 1902), much confusion had surrounded the early history of this great hospital

^{*} See also Bengal Past and Present, vol 1, p 150

Sr George & Hospith - Bonbar

This hospital was opened in 1769, is the following IHI CYCLOPEDIA OI INDIA extract show.

"The first house or centre building was delivered up and taken possession of, June 20th 1760, being months lose 7 days before the limited time of the 12 months less 7 days before the limited time of the contract The west wing vas begun to be inhabited by sick people, April 2nd, 1770, and the cist ving on the last dity of my two verse contract. This is clear anomals and mits an and to am contract. This is clear enough and puts an end to any con-

fusion as to the date of the opening of the hospital The above extract is from a long letter from the Rev John Zacharith Kiernander to the Council with Warren Hastings as President, dated 1st Val 1772

for the military the present one being only a tem por iry one in the Old Tort, destitute of proper modulus one has received as soon as massiful and the modious one b creeted is soon as possible, and the Civil Architect attending the Board on this occasion, he is ordered to point out a proper spot for an hospital to be built upon and it the same time to deliver in a plin of one, with an estimate of the expense of the Civil Architect was Mr J Fortnom It may be not of the three of the noted that this hospital was built for the use of the military and to be officered by the surgeons of the Company 5 Service



This is not the place to recount the story of Inis is not the place to recount the story of Kiernander, the enterprising and energetic Swedish that in 1700 and RR wears in 1740, and died in Calcutta in 1799, aged 88 years

We make out the General Hospital to be the third Calcutta Hospital The first was the one in what is Calcutta mospital the first was the one in what is Calcutta inside the Fort, the third the "temporary" of the content of the c One in Suiman's Gardens but this scheme appears one in Suman's Gardens out this scheme appears to have given place to the erection of the General Hospital The earliest reference to this hospital is contained in the following extract from the Consultation of 20th September 1766

The Board, taking into consideration the great inconvenience attending the want of a proper hospital

river, at Point Sumatra, "opposite Surman's Gardens," opposite Midderpore Mr Fortnom submitted detailed plans and estimates for a very fine and "comscheme was too ambitions a one for the impoverished scheme was too ambitious a one for the impoverished Condition of the Company's finances at that date, and finally Mr Kiernander made an offer of his "Garden thouse" in the head already hands the House, Which he had already built. He accepted the offer of 98,900 rupees for this house and entered on a contract to build the additional buildings required to contract to build the additional buildings required to convert the "garden house" into a hospital, which was a mantioned

opened for use as such on the dates above mentioned So much for the early hospitals of Calcutta Records ords are not available to trace in detail the early history of similar institutions in Bombay and in

We may now proceed to give a brief sketch of the Indian Medic il Service from its early beginnings or the middle of the 18th century to the present day* The Indian Medical Service as not constituted con-

sists of Medical Officers, appointed after open compettion in London for service under the Government of In organisation it has always been essentially a military service, though from the earliest days a large proportion of its members have always been employed proportion of its memory have always been employed in purely Civil Medical duties Besides this combined

Civil and Military Service there are also in India many

officers of the Medical Department of the British Army, the Royal Army Medical These officers are intended for the care of the British Army in India and are not, except in a few small places, employed on any

Civil duties There realso Sub Medical Departments, both Civil and Military, who will be men-

tioned further on The origin of the Medicil Indian Service may traced back to the very carliest days of the Fast India Company, and the first ships of the Company which were sent out to India in 1600 carried surgeons, and John Woodall, † ? Surgeon of St Bartholomen's Hospital, from 1616 to his death in 1653, held the position

of Medical Adviser One of his duties was to select or "General Chirsurgeons for the Company's ships trading with India On arrival in India many of these surgeons obtained Company in London employment in the various settlements and factories of the Company, and stayed either for fixed periods attached to the settlement, or resigned and went home,

* For this we are indebted to the many publications of Liciterant (closed I) G (crawford 1 M s (chieffs in the Indian Medical Ga ette) on the horse of the cross as they pleased

the nitropy of the envice the property of the form the field a the families of the following the field of the hi toi) of the ervice

It was not till the publication of an order, dated 20th October 1763, directing the formation of a service that october 1/03, anecoming the formation of a service machine the medical men serving under the Company vere

combined into one body, with effect from 1st January Type, which, therefore, may be taken as the date of the 1704, which, therefore, may be taken is the date of the foundation of the Indian Medical Service as 2 "Service" At the same time the service \ 13 divided into three

At the same time the service, as divided into three creations and Bombay with establishments, viz, Bengal, Vadras and Bombay which separation remained in force till the year 1897 when all three were combined into one service In this way a regular Medical

Service with graded ranks was created out of a heterogebody individuals serving neous as medical men

first For the twenty-four vears of its existence the service was without any definite head, although the serior surgeon in each Presidency had ? vague and indehnite control In 1786, a Medic il Board was constituted, and the first three members in Bengal were James Ellis, Andrew Williams, and John Fleming, with Thomas Gillies as s milar Secretary Boards were constituted for Vindras and for Bombay They never evercised any very definite administrative control, the system, hovever, remained in force till 1857

In 1766, the Bengal Vedical Service was divided into two parts, a purely Vilitary and a purely Civil This,

it is interesting to note (as the suggestion has often been made since), proved a complete failure, and, as in the present day, the Civil branch was the more popular In less than seven years Government found it necessary to unit The nominal division did not last long seven years Government tound it necessary to unite the two departments again when Mr Daniel Campbell

Succeeded to the head-mp of the service Treutenant"For the next seventy years," writes I leutenantColonel D G Crawford, IMS the historian of the
Survice, of deviating again this Civil and Military, as offen succeeded to the headship of the scrvice of dividing again into Civil and Military, as often



Who subscribed a lac of Rupees to Indian Medical Charities during the

1000

rused and again decided that while the service was primarily a Military one, its members might be "lent to Civil employ," and this arrangement which works well and has stood the test of time is still in force

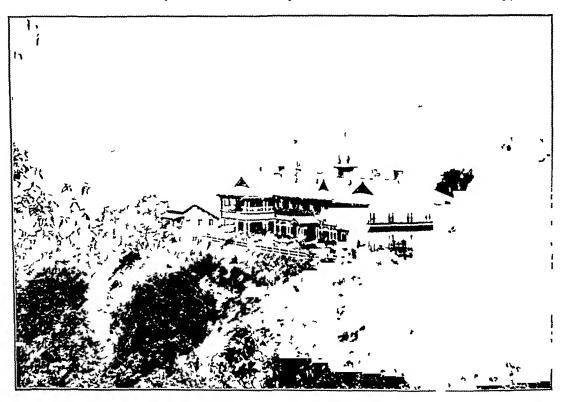
The Military portion of the service might well be put in charge of the British troops in India. This would improve the Military side, and would relieve the Home Medical Department (Royal Army Medical Corps). In 1858 after the suppression of the muting the fate of all the services of the Indian Government was for some time doubtful. From 1860 to 1865 no cand dates were admitted to the Indian Medical Service, and the question was even seriously considered of imalgumating it with the Home Medical Department. Fortunitely this impracticable scheme

Commands but we hable to service anywhere in the Indian Empire

The mode of admission to the service is by competitive examination, held in London and open to all

natural born subjects of His Majesty

In early days men were appointed in London to a ship or to a Presidency, and since 1795 a legal diploma to practice has been insisted on Regulations for admission were duly published, first in 1522, and ever since. Competitive examinations were first held in 1855, the first examination being on 8th January of that were, but the old system of nomination was not finally given up till 1858. The service has ever been a popular one and even early in the 18th century, complaints were made that men were appointed locally



THE WALLET HOSLITH -- SIMILY

fell through, and the decision was announced by the issue of a Royal Warrant, dated 7th November 1864

The next epoch of importance in the history of the service came in 1895 when the three Presidential Armies of Bengal, Madras and Bombay were amalgamated into the Indian Army. The officers of the Indian Army were put into one list in the Indian Staff Corps, which at the time of the Delhi Coronation Durbar of 1st. January 1903, was changed to Indian Army. In this reorganisation the Indian Medical Service shared and the last admissions to the separate Bengal, Madras and Bombay services took place on 20th July, 1896. Since then medical officers on admission to the service are posted to one or other of the

by the Company to the detriment of the men selected by the Court of Directors at home

The question of the rank of officers in the service has been practically settled for the past 60 years and more, and it has never been the acute question it became some years ago in the sister Medical Service at home. Titles of Officers and Heads of the Department have changed from time to time, but the relative rank was laid down specifically in the East India Register of 1843 as follows—

Physician General Surgeon General | Ranked with | Brigadier General | Supported of Hospitals | Lt Colonels | Vigors | Captain | Surgeons | Surgeons | Surgeons | Surgeons | Captain | Indicate | Indic

In the Bengal and Agra Gazetteer of 1841, this is given as follows —

Members of the Medical Board
Superintending Surgeons
Surgeons
Asst Surgeons
Asst Surgeons (after 20 years s rvicc)
Veterinary Surgeons (after 10 years service)
Veterinary do (during first 10 years)

Veterinary do (during first 10 years)

Up till the year 1880 the Administrative Medical Officers discharged both Civil and Military duties and they had to inspect all hospitals, Civil and Military, within their respective circles In 1880, the service was recognised, all the Civil Medical Administration was placed under the control of an officer of the rank of Surgeon-General, his title being Surgeon-General with the Government of India and Sanitary Commissioner, the first officer to hold this appointment being J M Cunningham, who was selected, and by this promotion passed over seven other senior officers. The next grade was that of Deputy Surgeon-General, and their number was reduced from 13 to 0, viz, four for the Provinces of Bengal, N-W Provinces, Punjab and the Central Provinces, and four Military for the Presidency, Lahore, Saugor and Nerbudda Military Districts and for the Punjab Frontier Force, and one a combined Civil and Military appointment for Assam The four Military Deputy Surgeon-Generals were placed under the P M O, His Majesty's Forces in India, an appointment open to the Indian Service, but usually held by an officer of the Home Service title of the Civil Deputy Surgeon-General was changed to Inspector-General of Civil Hospitals

It is next to impossible to follow the numerous changes in the Military Department, but these officers are now entitled Principal Medical Officers of the Brigades, Commands, Army Corps or Divisions in accordance with the various changes of the Military Commands.

Up till 1873, officers entering the service were commissioned as Assistant-Surgeons. In 1880, Surgeons were given the rank of Captain on passing out of Netley. The compound titles, Surgeon-Captain, etc., up to the most cumbrous Brigade-Surgeon Lieutenant-Colonel, were introduced in 1891, but at last the present titles, which are likely to remain, were introduced (after the agitation in the Home Service) in the Royal Warrant of 26th August 1898. Purely Military titles are now held by all Indian Medical Service Offices from Lieutenants to Colonels, and custom has sanctioned and accepted them.

Officers of this service serve Government in many capacities, in medical charge of regiments of the Indian Army and as Principal Medical Officers of "Brigides" "Corps," or "Commands" as they

are called according to the often varying fancies of Military organisation On the Civil side of the service the majority form the Civil Surgeons of Districts, and this body of Civil Surgeons are the backbone of the service, and from among them are recruited the selected men who hold the teaching appointments in the various medical schools and colleges all over India The Jail Departments of India are also in the hands of I M S Officers, to whom is due the great efficiency of the Jail Departments Civil Surgeons are Superintendents of the District Jails, and the large Central Jails are in the executive medical charge of I M S Officers who have joined the Jail Department It has been found impossible to keep a dual control in jails the duties of the medical officer are so many and so important that there is little left for a non-Medical Superintendent to do, and even that little is subject to the approval of the medical officer at many points

The Government of India, therefore, wisely put the whole executive as well as medical charge of the juls of India into the hands of a Medical Superintendent, and the great success of their management has amply justified the wisdom of the Government of India olden days Indian Medical Service Officers did many other non-medical work. It was Dr (afterwards Sir William) O'Shaughnessy-Brooke, who started electric telegraphy in India it was Dr Paton to whom India was indebted for the splendidly organised Post Office The Assay Department of the Mint has always been managed by medical officers and until recently the Opium Department has been in similar charge The fact being that no other body of men had the education and general knowledge, especially of scientific subjects, needed for such work. Of recent years, owing to the natural growth of special professions, these departments are gradually passing into the hands of properly trained men, and the Mint alone of the Minor Scientific Departments is alone dependent for its assays on specially qualified expert incdical men

On the other hand, the resolutions passed at the first Indian Medical Congress held in Calcutta (December 1894), followed 18 months later in the hot weather of 1896 by plague, forced the hands of Government and showed the vital necessity for research work and for Now, besides the Central Research Laboratories Research Laboratory at Kasauli, there are Pasteur Institutes at Kasauli and Coonoor, and quite recently one has been started in Burma Every province too has its own Bacteriological Laboratory, excepting Eastern Bengal and Assam, and the enormous amount of good research work now done in India was strikingly illustrated and made known to the general public by the Pathological Section of the Exhibition at the second Indian Medical Congress held in Bombay in the last week of February 1909

TRADING PORTS OF INDIA

CALCUTIA

BOMBAY

MADRAS

KARACHI

CHII FAGONG

RANGOON



The Port of Calcutta

INTRODUCTORY

THE history of the Port of Calcutta may be fairly said to be an epitome of the history of the British Empire in India Other centres of government trade, and population in that era, can claim a longer history Fort St David and Cuddalore, Fort St George and Madras or the part down of Catherine of Braganza at Bombay, but it has been from Fort William at Bengal " in the first degree that the great expansion of the Empire of India has taken place and although it is long veirs since the greater duties of government involved the abandonment of trade by the Honourable East India Company, it is well to recall that the foundations of Impire were laid by triders who aimed it trade alone, which should be profitable to all parties European and Indian and not it conquest

Nor is it difficult to understand how old I ort William and the villages on the site of early Calcutti came to be the chief trading centre and the cradle of the great city which is now the capital of India and the second city of the British Empire in population depends on transport, and in the days before the present network of raily ays had grown up and when roads were only embryonic, the position of Calcutta at the head of the great riverain system of the Ganges placed it in an unassailable position is an entrepot of trade with the great and fertile plains of Northern India, and beyond the possibility of rivalry by the older Presidency centres The keynote then of the growth of Calcutta is trade and this trade its position has commanded, both overseas and inland from the days when it was founded by the father of the Port and City-Joh Charnock whose grave is now the centre of this British Indian capital

Rudyard Kipling is the poet of Anglo-India is responsible for a gross libel on the founder of the city in his well-known plea for the summer administrative capital—

Once, two hundred years ago, the trader came Meek and tame

Where his timid foot first halted there he tayed Till mere trade

Grew to empire, and he sent his armite forth South and north

I'll the country from Peshawur to Crylon

Thus the middly halt of Charnock-mores the pity to Grew a city

As the fungus sprouts chaotic from its bed So it spread

Chance directed, chance erected, had and built On the silt. Poet's license has seldom been carried further. Had Job Charnock sought a site for a sanatorium it is not likely that he would have scarched the Hooghly stream but for the practical purposes of trade, which moved him and reasonable security from disturbance for his trading mart it would have been difficult for him to find a more fitting local site.

The late Dr Wilson in his unfortunately uncompleted volumes on the Farly Annals of the English in Bengal'* has set out the moving story of the difficulties and struggles of the early settlement from the hostility of the country powers, and on the question of the suitability of location he brings out the fact that many years before Fort William was founded the Portuguese fleet of traders working with the seasonal winds from their headquarters on the West coast made the present reach of the river on which Cleutta stands their rendersous and annually built i temporary town on the Howrah side of the river at Betor (about where is now Seebpore) for the purposes of trade with the inhabitants. Liter the Portuguese established their headquarters further up stream at the town of Hooghly and built a fort Hooghly being within practical reach of what was then the important town of Satgaon or Suptagram connected with the Hooghly river by a tributary the Saras wate which has since should up. After tentative endeavours to build up trade with Bengal from settlements in the neighbourhood of Balasore the English ulso established a post at Hooghly In the year 1686 in consequence of disputes with the agents of the Delhi Emperor and after a tough fight with the Mogul forces, Charnock evacuated Hooghly and sailed way with his fleet and the Company's motable possessions. Before finally selecting the site of Calcutta he projected settlements at other places, including Ingelice near the mouth of the Hooghly on the vestern bank, where an action was fought with the Mogul troops, Oolobern a few miles below Calcutta, where the Midnapore Canal now takes off while Chittagong on the Arrakan coast, then a centre for half-caste Portuguese pirates, was favoured by the Home Board of the Company for their Bengal headquarters. Finally in 1600 Charnock settled down on the east bank where is now Calcutta city, then marked by the villages of Govindpur, Kallikatta, and Sutanuti Hat, and the Mogul agents, having by this time realised that there was mutual loss by the restriction of overseas granted their approval to the new settlement

^{* 1} trly Annals of the English in Bengal 2 Vols 1 hacker, Spink & Co

Other Furopean nations were also alive to the advantages of cistern trade and the Dutch who had derived great profit from their pioneer trading in the Eastern Archipelagoes cally established a settlement at Barnagore, now a suburb of northern Calcutta and later the French at Chandernagore, and the Danes at Scrampore while unsuccessful endeavours were made by the Hanscatic cities to establish a footing in the

Hooghly

The early records do not give a large amount of information as to the growth of the Port, but its advantages gradually triumphed over the difficulties, hardships and dangers which were inseparable from a European settlement in the marshy delta of a tropical river. City hygiene vas httle known or regarded in Europe during the seventeenth century so that it is not to be wondered at that Calcutta with all its handucips established in its carly days a reputation for insalubrity which it will take many years of city improvements to entirely live down but it is a fact that at the present day the Bengalis look upon Calcutta is a more desirable place of residence than the country districts of Lower Bengal and that drainage sewerage, and water supply on a great scale have done much to improve the conditions of Much however remains to be done in these essential features of a modern city and particularly

in the opening out of congested areas

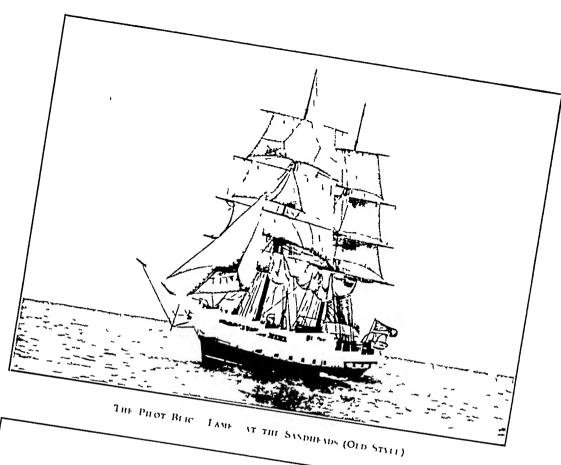
The course of trade in the early days as has already been indicated was practically entirely by the great waterways of the Ganges and the agents of the Company gradually pushed up country their trading posts and Moorshedabad the crstwhile capital of the Nawabs of Bengal Dacca a still older Mussulman capital, and Patna in Behar became important centres of exchange The Company's ships brought from England Europe goods which were exchanged for country produce silks cottons, rice, and notably the saltpetre which went far to furnish the staple of war in the great campaigns of the eighteenth century In those days of hand-loom wearing in Europe, India be it specially noted, supplied cotton goods for the home market and Calicut had early given its name to calico In Calcutt 1 the Company established a calico printing factor, which stood somewhere about the site of the present Wellesley Place, to the south of the Park The great tank Lal Dight, in the middle of the park was the main source of the water-supply of the early settlement and it is interesting to note, that it was proposed at one time to convert it into a dock by cutting an entrance on the south side of the old Fort, somewhere about the line of Koila Ghat Street In such case the present docks at Kidderpore would have been anticipated by a century and a half. The project, however was not carried out and shipping facilities until the middle of the eighteenth century were confined to the quay which ran along the whole of the western or river face, of old Fort William, where the Company's goods were handled to and from the warehouses which crowded in the old Fort In this connection it is noteworthy that the records of Government show that in May 1758 Clive informed the Select Committee that "Mr Pocock (Admiral Pocock) at his departure

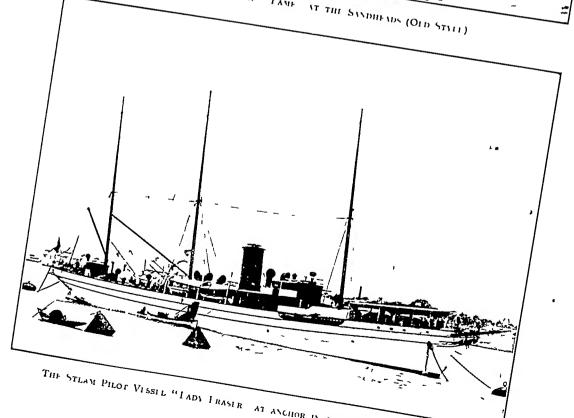
represented to him the necessity of having a dock m Bengal for the reception of His Majesty's ships in case the squadron should winter here and as he thinks the expense of milling such a dock sould be greatly overbilanced by the advantage resulting from having the squadron refit it Bengal instead of Bombay by which means they would have it in their pover to return, much earlier to the coast, he hopes therefore the Committee vill immediately order a survey to be made of the spot most proper to make a dock at and give directions for its being begun and completed as soon as it possibly can be done The Committee concurred in this expression of opinion and according to the I ditor of the Selections from the Records from s hich we quote, this led later to the establishment of the old docl s at Kidderpore on the site of Surmans Gardens

Again in 1760 Benjamin Licam who had made a survey of the fiver advinced a scheme with the object of extending the accommodation. Sir Charles Stevens says. The was struck with the idvantages of Channel Creek east of Saugor Island and succeeded in persuading the Government to give him a grant." He however proceeded to levy tolls on the traffic from Fastern Bengal and the grant was revoked. Channel Creek was known in still older days as Rogues river and had the reputation of harbouring the Portuguese and Mugh pirates who preced particularly on the country shipping, and whose depredations necessitated a boom across Garden Reach as late as the

mid eighteenth century

Although there are no salient figures to produce cert un it is that in the sixty odd years from the death of Charnock the Port of Calcutta grew greatly as the volume of trade expanded and it had become the most important of the Company's settlements. in 1756 came the d back British Calcutta was temporarily efficed by the forces of the Navab Seraj ud-daulah, it was renamed Almagar, and a tragic chapter added to the history of the Empire survivors escaped down stream to Fulta in the Compant's ships. In the fall of that year however, by sea came the succour of England's ships, and in January 1757 the combined forces of Admiral Watson and Chive re-occupied the city and went forward up stream to the campaigns from which date the expansion of the Pritish Limpire in India. Thereafter the trade of Calcutta steadily expanded as the bounds of British India were carried further and further inland As the responsibilities of administration increased the position of Company as a trading concern became anomalous and all trading was finally abandoned to the private enterprise which had been steadily expanding By the early days of the nineteenth century, Calcutta ships carried on a large trade with China and the Dutch East Indies as well as to Europ2, and it is noteworthy that an Indiaman—the City of Calcutta—was the first ship to anchor in what is now Melbourne harbour. Whether this ship was actually Calcutta built, the writer cannot say, but about this time an extensive shipbuilding yard existed at Kidderpore



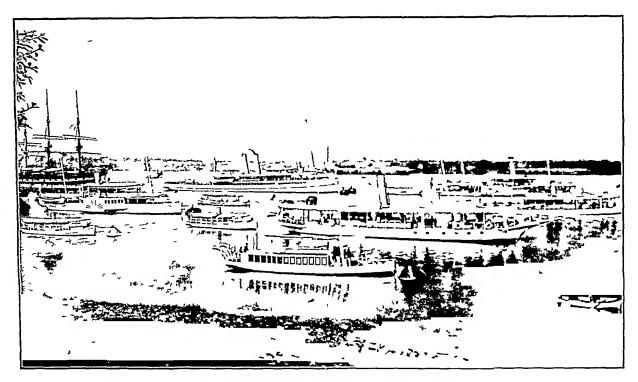


THE STLAM PILOT VISSIL "IADY I RASIR AT ANCHOR IN THE HOOCHITY (NEW STATE)

THE PORT APPROACHES

The city and Port of Calcutta is situated some 81 miles from the Saugor, but the area officially buoyed lighted* and surveyed extends nearly 50 miles seawards from Saugor to Pilots Ridge From the carliest days of European trade, the tortuous and difficulty channels of the approaches to the Port have been a great handicap to shipping but it is note worthy that in the seventeenth century the sevenoing ships of the Portuguese worked up to Hooghly 28 miles above where is now Calcutta, English ships up to 1686 used to make the same up river station while igain in 1757 several large vessels of Admiral Witson's fluit were able to push up stream to take the leading part in the destruction of Fort d'Orleans and the French

berra, and still later changed again to the point where it nov flows in. Dying or not dying hovever the fact remains that is a consequence of the efficiency of the survey system; introduced by the Port Trust and continuously under the control of Ciptuin E W Petley, RN, CII, from its establishment until yery recently, the druight of vessels entering the Port has been steadily increased of late years The regime of the river above the estuary is furly consistent except in the section between the mouths of the Damudar and Ruphar in rivers and it is here that the famous James and Mary should is situated The following description is taken from Mr. I consid's report of 1868. The general character of the " James and Mary" is a sand about three miles



THE PORT COMMISSIONERS' LIFET OF SERVEY VESSELS

settlement at Chandernagore † Periodically it is contended that the Hooghly is a dying river and certainly the above facts would seem to show that the river above Calcutta was more navigable in the early days than is the case now, but there is one considerable factor that tends to vitiate such comparisons Somewhere in the early days the Damuda river changed its course, and instead of joining the main stream above Hooghly broke through far lower down at Oola-

* There are on the River—120 buoys 13 gas buoys 6 light vessel one unattended light vessel False Point Lighthouse Cowcolly Light

the three light vessel False Fount Eighthouse and 6 anchoring lights

+ With regard to this fact it has been pointed out by the Officers
of the River Survey that vessels of the draft of Admiral Watson's larger
ships, that is about 16 to 18 feet could still navigate up to Chander
nagore with perhaps little greater difficulty

long, and one-third of a mile in width, placed about the centre of the river, thus forming two channels, called the Eastern and Western Guts Some parts of this sand are always so joined on to the bank as to reduce greatly the depth of water

In illustration of the far reaching character of the River Survey

as now carried out we quote the following paragraph from the Administra-tion Report for the year 1907 o8

'The following figures show the progress that has been made in the operations of the Survey Branch of the Port and Port Approaches Department

Miles sounded Small River Charts and	1205	5864	7679	7956	8082
notices published Number of Buoys (Calcutta	20	606	1003	998	994
to Diamond Harbour) River Marks	7 57	30 115	44 138	48 229	50 229

in both Guts, but during the rains, when there is a large fresh water discharge down the river, it is so joined to the right bank as to quite close the Then, when the fresh water discharge Western Gut of the river is very small, the sand is detached from the right bank and so joined to the left as to close the Eastern Gut Very often while the changes are taking place both channels are so bad that there is sometimes as little as six feet of vater in the best of them * Mr Leonard observes that, when one river flows into another, the consequence is that a shool is formed above the junction and a deep channel below In the rains the Eastern Gut is scoured by the freshets and the ebb tide, and the Western Gut closes. In the dry season, the discharge from the Damudar is small, and the ebb tide runs, consequently, more under the right hand bank of the Hooghly, then the Western Gut opens and the Eastern Gut closes The sands forming the "James and Mary ' are deposited mainly on account of the diminution of the velocity of the current of the main channel, caused by the great body of the vater of the Rupnaram meeting the Hooghly at nearly right angles, but the action of the Damudar water has much to do with the shipe and character of the shoal

Although the Damudar is thus held largely to account for this bar, the fact that we have already referred to as to the change of course of this river, tends to show that it is not the only cause for the shoal receives its name from a ship the Royal James and Mary, which was lost there a few years after the founding of Calcutta, Other bars which give trouble and which are attributable to the alternating direction of the scour of ebb and flood exist at Movapur and Royapur, while there are several difficult crossings and channels in the Estuary below Diamond Harbour, and in the

shoals that beset the approaches to the river

"Only once during the la 134 years, and that for two days in January, 1897, has there been less than 7 feet depth available for navigation on the James and Mary, and as this bar governs the navigable capabilities

of the river these cannot be said to have deteriorated. The annual shoal patch of the James and Marythe Eastern Gut bar-from 1875 to 1893, was generally between 8 and 10 feet

In November 1895 the Eastern Gut rose to 7 feet and a short period ensued which firsted till the beginning of March 1856 during which the bar shoaled at one time (4th & 5th Lebruary 1896) to 6 feet. However during this time the Western Gut give an alternative channel with a depth at one time of as much as 15 feet 6 inches and never less than 3 feet 6 inches

Next year, January 1897, the Pastern Gut after the wreck of the S S City of Canterbury shouled to 6 feet 3 inches for one day and as the Western Gut afforded even less depth this was the shoulest point years before and remains so till this day. At that time the depth was less than 8 feet for only four days."

In the cour e of a Report on the growth of Trade in the Port of Calcutta by Mr. F. Palner, C. F., WINST C.F., Chief I ngineer the following paragraph occurs.

Several schemes have been proposed for removing the difficulties of the James and Mary shoal, one of the earliest was that of Mr W A Brooks, who in 1865 advocated the cutting of a canal through Hooghly Mr I conard devoted much time and thought to this question, and we quote Sir Charles Stevens' summary of his recommendations. In a preliminary paper he suggested that an increased discharge might be obtained from the Domudar at Fulta, and his final advice was that the right bank of the Hooghly should be improved at the junction, and a groyne thrown out below that point. But the main feature of his scheme was the construction on the left bank of the Hooghly of a mile of brushwood spur from Fulta Point, followed by a mile of training wall of burnt clay The object of this vas to throw the downward stream of the Hooghly and Damudar combined into the Western Gut so that it might alternate there with the flood tides. Mr. Leonard also laid great stress on the necessity for works protecting the mouth of the Rupnaram, which is gradually growing vider, and more in a straight line with the lower Hooghly

Sir Charles Hartley, to whom Mr Leonard's preliminary memorandum was submitted, agreed as to bringing a greater flow from the Damudar, and advised the construction at the 'James and Mary' of an "isolated work, 'a wall of rubble stone The length should be estimated at 10 000 feet, but, in practice, he sud, should stop considerably short of the extreme upper and lower limits of the shoal, and should only be continued thence for such lengths and in such directions as experience might dictate. If this work were carried up to half tide level, it would not encroach on the tidal area, which he thought it very important to maintain, and would keep up a constantly good navigable channel. The work would form an artificial island, and probably the necessary scouring would be

effected by the current

In the year 1895 a cycle of bad conditions in the river recurred and the late Professor L T Vernon Harcourt came out to study the subject and report As a result he proposed that a training wall, slightly over four miles in length, should be constructed from Tulta Point nearly down to the outlet of the Western Being concave towards the river it would guide the freshets along it towards the Western Gut, and, by leading them against the sandbank in mid-river, would make them enlarge the Western Gut on its eastern side by scour. 'The training wall should be straight towards the lower end, so as not to narrow the channel unduly, and the lower end itself should be curved outwards from the channel, so as to prevent undue scour at the extremity by the sudden realese of the confined current, to facilitate the outflow of this current in a suitable direction, and to afford an ample entrance for the influx of the flood tide. The height of the wall should be fixed at low water of ordinary spring tides, as the favourable concave line of the training wall, guiding the powerful freshets, should succeed in producing a sufficient scour to clear out tne channel, being aided at first by a sand-pump dredger, and the lower the wall can be kept the less will it interfere with the tidal capacity of the reach The cost of the work is estimated on the data assumed at Rs 20,57,000 "

^{*} With special reference to the tendency of the regime of the River, and Mr Leonard's remark above referenced as to the depths of water on the James and Mary Shoal, the River Survey Officers have kindly furnished the following note-

following paragraph occurs
'The evidence obtained from the more extensive survey system adopted during the past twenty five years clearly indicates a gradual improvement of the navigable channels, and no better proof of this can be obtained than the fact that vessels of deeper draft navigate the river with greater safety than ever before. In 1833 definite orders were issued to the Polite that a teach a benefit were to be becaused. to the Pilots that no vessel with a draft of over 20 feet was to be brought up the river, while in 1905 vessels of 28 feet draft navigated the river, and the average draft of the ten most deeply laden vessels was 27 feet 6 inches."

Professor Vernon Harcourt's report called forth a great deal of discussion, and it was the opinion of the officers of the Port Trust that it was very doubtful whether such bunds as were proposed could be main tained, or even constructed, in such a fast running stream, and that the cost would be greatly more than that estimated by Mi Vernon Harcourt Nothing was done to carry out these proposals and in 1898 an American Engineer, Mr Linden W Bates, made proposals in which he contemplated the removal of Fulta Point by dredgers working inside the existing bank and the regularisation of the mouth of the Damudar river. This opinion led to the acquisition of a small suction dredger of the type associated with Mr. Bates practice, and although its work was such that the

ever been written, but the information we have already given of the character of the river approaches will have indicated in some measure the great demands which are made upon the Pilots. There is, however this compensation to its members that while the vorlass exacting the service is highly remunerative.

IIII PORT

The steady growth of trade during the first half of the nineteenth century a growth which increased still more rapidly with the transfer of the Government of India to the Crox non-1855 made it apparent that further facilities must be provided for the handling of the trade. Ford Canning in a list of argent public yorks given in a despatch to the Secretary of State in 1860 in-



STEAMERS LOADING IN KIDDERPORT DOCK

feasibility of the designers plans were rather discounted, as it proved comparatively unable to tackle new earth, the experience gained let to the acquisition of the great dredger Sandpiper, the operations of which promise to greatly improve the conditions of the bars. Under the administration of the present Vice Chairman Mr. F. G. Dumayne, dredging has been given an important place in the scheme of port improvements, and the Sandpiper which has been put to work on the Hooghly bars—is accomplishing very efficient work, the benefit of which is greatly felt in the season of low river

No article on the Port of Calcutta would be complete without a reference to the famed Bengal Pilot service Unfortunately no history of that service has cluded a sum of too lakhs of rupees for wet docks for Calcutta and about this time a series of four T-head iron screw pile jetties were constructed on the east bank of the river along the commercial quarter of the town. Direct Government control, as usual, proved inadequate to handle the questions of provision for expanding trade, and an Act was passed in 1866 vesting the Port control in the then Municipal authority, the Justices of the Peace, and a committee was formed by them for this purpose. They found the situation, however, impracticable, and resigned in the following year, their Engineer, however, Mr. Leonard, had framed a series of reports on the Port and approaches which proved of great value. The question of the constitution of a Port authority having become a

burning one, further legislation in the Bengal Council resulted in the constitution of the present Port Trust in 1870 This Act give the Lieutenant Governor power to appoint nine Commissioners for making improvements the Chairman and Vice Chairman being nominated by the same furnority they were created a corporation with a common seal, and they were empowered to construct wharves, quays Jetties and spurs, landing places, tramways, warehouses, and to make reclamations of the river bank or river bed They were authorized to raise loans. When sufficient accommodation had been provided ill vessels were to be obliged to load and unload at the Commissioners whartes, the Commissioners having power to frame a scale of tolls dues, rates and charges for the landing and shipping of goods. In 1871 the powers of the Conservator of the Port were transferred to the Trust The Government lands on the strand banks were also transferred to the Trust on payment of an annual quit-rent

The work of the Port Trust at once justified its constitution and at the end of the year 1879-80 its financial position was shortly as follows Inclusive of the sum of ten lakhs of rupees for works previously carried out by Government works previously carried out by Government which was charged as a debt against the Trust had borrowed £602,510 from Government The loans well all advanced subject to interest at 41 the contract of the contr loans were all advanced subject to interest at 41 per cent, and repayment by instilments in thirty years. The Commissioners had, during the tent consolidation under the 1ct, which had then been removed, a permanent debt of £176,500, bearing interest at 42 per cent. This debt represented the original value. 41 per cent This debt represented the original value of the moorings and vessels made over to the Commissioners on the transfer of the Port to their charge The Port had, however, acquired new block of the tion, the value of the entire block stood at fibr 958 A depreciation reserve fund of £20,000 had been accumulated from the unspent balance of the annually cot acide for rengale of the amounts annually set aside for renewals, and in addition to this fund the Commissioners had to their credit an investment of £35,000, to meet evtraordinary and unforeseen expenditure, such as might be required on the occurrence of a cyclone had also a reserve fund of fro,000 on account of the formation of the reserve fund amounted to Against the repayable debt and the permanent debt, amounting together to £710,534, the Commissioners held property of the total value of connew works on the purchase of a portion of the land on new works, on the Purchase of a portion of the land occupied, and in the formation of the reserve fund to this were added the value of all lands belonging to the Trust and which were made over by Government Without charge, the whole property might be taken as worth nearly two millions sterling The total profits worth nearly two millions sterling Inc total pronts derived from the works constructed by the Commissioners between 1870 and 1880 had amounted to £396,638, after payment of Interest at 4! per cent, and of this amount £65,000 had been invested in the

reserve fund and the balance expended on works of improvement

Although the jetties had been considerably extended, the necessity for wet dock accommodation had become increasingly manifest and in 1881, on the initiative of the Trust, a Committee was appointed by the Lieutenant-Governor, Sir Ashley Eden, to report on a proposal for the construction of docks at Diamond proposal but great opposition to it was shown by the merchants as a body, who objected to the double of the merchants as a body of the merchants as a body of the objected to the double of the double The majority of the members approved the striffs and offices which would be entailed It was also urged that the site was within the known danger one from cyclonic waves Sir Rivers Thompson, who succeeded Sir Ishley Eden appointed a fresh Committee, including several mercantile members in 1883 and it is from their report that the existing wet docks at Kidderpore have sprung. The Committee that twenty-one Jetties might be provided on the Calculation of the might be provided on the Calcutta side of the river in positions where they could be erected without causing public inconvenience, and twenty on Howrsh side between the Botanical Gardens and the lower boundary of the Port But they estimated that the same amount of accommodation could be provided in a wet dock at not much greater cost, and they pointed out that vessels lying at Jetties would have neither the security nor the convenience afforded by a well arranged wet dock. They considered it also most undesirable to divide the accommodation and to place half on the Calcutta and half on the How rins side Jetties, though they might cost less in the first instance than docks, would cost more to mainthe mot mot more than docks, would cost more to maintion of wet docks was the best and most economical of all mersures for affording the increased accommoda-

tion required for the commerce of Calcutta As 3 result of this finding, but after further enquiries as to the samitary aspect of the proposed works, Sanction to their construction to the plans of the Engineer to the Trust the late Wr William Duff Bruce, VINST CF, Was given by the Government of India, and the next following paragraphs are based on the paper read by Mr Duff Bruce before the

Within the limits of that section of the river known as the Port of Calcutt, the Hooghly varies in width between 1,300 feet and 2,000 feet At the point wide and from Diamond Harbour 40 miles helow wide, and from Diamond Harbour, 40 miles below Calcutta, it gradually opens out into an estuary, which at Saugor lighthouse is 15 miles wide

Tidal influence, when not checked by freshets during the rains, extends as far as Nuddea From March to July, when strong southerly winds prevail, the current at spring fides during the early portion of the flood attains a velocity of 5 to 6 miles an hour During the rainv season, when the discharge of fresh water by the branches from the Ganges is considerable, the do vn-stream current during the ebb-tide runs at about the same rate, and during heavy freshets in the river the upward current at the flood-tide is hardly perceptible, although the level of the water is raised for many miles above Calcutta At neap tides there is no up stream current at all if there are freshets, the

vater is headed up and the level rises, but the current s always down-stream This necessitated in arrange nent of dock entrances to permit of vessels entering or leaving on the flood-tide, and when the current in he river was continuously down-stream as frequently

nappens during the rainy season

'The rise and fall of the tide at Calcutta is recorded by a gauge at the Kidderpore dockvard the zero of which is 625 feet below me in sca-level. During the rains, the spring-tides rise to a mean height of 20 feet 5 inches, and fall to 8 feet 6 inches above zero (datum), while neap-tides rise to 15 fect and fall to about to feet above datum. In the dry season, which asts from November to June, the spring tides rise to an average height of 15 feet, and fall to 21 feet v hile neap tide rise on an average high water in the runv season is about 18 feet, but during heavy floods has been as much as 22 feet 6 inches. During the dry senson the water in the river contains very ittle silt, but in the runs serson the quantity of solid matter in suspension iverages i cubic inch to a cubic foot of water, and in heavy floods it contains three times that quantity. To meet this condition, special arrangements were made to allow the mud to deposit before the water enters the

"In selecting the Calcutta side of the river for the docks, the designer had in view the probable neces sity of a ship-canal to the river Mutlah as, owing to the constant changes in the navigable channels of the Hooghly, the navigation of that river might become impracticable. A canal to Mutlah would be merely an extension of the docks and the heavy cost of lock-entrances to such a canal from the Hooghly would therefore be saved "

Kidderpore was the nearest point to the mercantile part of the city at which ground could be ob tained at a reasonable cost, the Committee considered that the docks would there be within easy distince of the merchants' offices and warehouses, and that no inconvenience would result from the transfer of business from the river and jetties to the docks, particularly as the East Indian Railway would be placed in direct communication with the docks by the Jubilee Bridge at Hooghly, then under construction, and

long since completed

Dock No 1 of the existing docks is 2,600 feet long, and its width for the greater part of its length is 600 feet, and it has an area of 341 acres. The entrance to the docks is through a tidal bisin 600 feet by 680 feet, and from the river to this there are two entrances one consisting of a lock 60 feet wide and 400 feet long between the gates and the other an entrance 80 feet wide fitted with a single pair of gates During the dry season there is never less than 19 feet 6 inches over the sills at low water of spring During neap-tides in the dry season there is 26 feet and during spring tides 32 feet of water over the sills at high water

On the east side of the tidal basin a graving dock was originally constructed 520 feet in length and with an entrance 70 feet wide, and 27 feet 6 inches deep, but this has since been replaced by a dock of much larger

dimensions

At the north east corner a smaller praying dock was constructed for the use of the koyal Indian Marine 350 feet in length with 160 ft entrince and 26 feet deep

To meet the difficulty of changing the vater in the docks and thus maintaining hygienic conditions Mr. Duft Bruce provided that the normal level of the water in the docks should be higher than that of the river The extra y uter being obtained by pumping from the Boat Cand which takes off from Tolly's Null th

The original equipment of the docks included fifty six moveable hydraulic cranes constructed by Messrs Sir W. G. Armstrong Mitchell & Co. six 11-ton capstans and five 5 ton capstans a pair of sheer legcapable of lifting 100 tons, and a complete system of varchouses. The whole of the aurys and sheds are The original cost of the docks and Jit by electricity other equipment amounting to Rs 277 39 911

Considerable difficulties vere met with in the construction of the docks valls ovang to the soft nature of the subsoil and the vater had to be admitted earlier than was contemplated to counteract a movement of

the valls

The provision of vet doels however for Calcutta was only half the battle and for several years commerand Calcutta opposed their use and it was only by a considerable amount of diplomacy combined with the pressure of evergrowing trade that it was finally arranged as a general principle that imports should be discharged at the jettics and the ships then vorked into the docks to take in export eargo-

Such has been the rate of expansion of the trade of Calcutta port in recent years that little more than a decade of working sufficed to show that the expacity of the docks must be extended and this his led to a great scheme of development formulated by the present Vice Churman Mr. 1 | Dumayne and the Chief Engineer Mr F Palmer MINSTOI CIF we now quote from a memorandum by the latter

vritten in March 1006

"The demands for the export trade are growing with such rapidity that largely increased accommodation is imperative. Fortunately the Commissioners are able to provide for the immediate requirements in a very economical manner by extending Dock No 2. The entrance works, power stations, rulway lines etc., already exist, and it only remains to construct additional berths somewhat ahead of the actual demands. The completed Dock (No. 2) will cont un 19 berths, so that deducting the 9 coal berths, there is room for 10 more berths of which 9 will be for general produce, equal to an increase of about 75 per cent on the present accommodation capacity of the new beiths will be largely in excess of the present berths, because of the very much larger transit sheds intended to be built and it may sifely be said that the completed dock will practically double the facilities for export trade. Four of these new berths have already been senctioned by the Commissioners, the plan for the transit sheds allowing for 96,000 square feet of covered space and 60,000 square feet of uncovered space as compared with 36,000 square feet of covered, and 12,000 square feet of uncovered space at the existing berths. This

KIDDERPORE DOCK FROM THE TIDLE BASIN

sanctioned addition will, as stated, increase the present quays by 35 per cent and the storage capacity by 50 per cent The construction of the remaining five produce berths will be taken in hand before the already-sanctioned extension is completed, and the total capacity of the docks will suffice, allowing for a somewhat greater expansion of traffic than in the past few years, for seven years growth of trade

"The equipment of the west side of Dock No 2 with mechanical coal loading plant will very largely add to the capacity for export coal * The dverage work done at all the coal exporting ports in the Bristol Channel, including Newport, Cardiff, Bairy, Port Talbot, Swansea, and the smaller ports, only amounts to 800 tons per tip per day, whereas the times as great and accuming that the most modern times as great and assuming that the most modern type of elevator-tip to be installed at Calcutta (which will be of better class than the average at the Welsh ports) will give at least as good results, the nine coal berths to be provided on the west side and one at the south end of the dock, each with two clevator-tips, will give a capacity of 5,000,000 tons per annum, reckoning 300 working days in the year Per annum, reckoming 300 working ways in the year This calculation is based on average results at the ports named, and includes vacancies, stoppages for repairs, irregularity in trade, and all contingencies and as the total coal exports from Calcutta have grown from 1,292,058 tons in 1898-99 to 2 382,566 tons in 1904-05, the accommodation at Dock No 2 will be sufficient for the probable trade of 1920 With this question of mechanical coal loading, the ample supply of vagons of a suitable character is intimately

The capacity of the existing docks can therefore be described as sufficient for the probable growth of tride in general produce exports for seven years, and

It is consequently incumbent on the Commissioners to lose no time in obtaining approval and sanction to proposals for the accommodation of the future, and several plans for new docks were discussed by the (ommittee before it was decided to adopt at least as preliminary scheme, the plan now submitted for the consideration of the Commissioners include the acquisition of 5,078 bighas (1,678 acres) of Ind on which it is possible to construct three large docks designed so as to form one system which will be linked to the existing docks by a connecting channel, the whole being served by one complete system of

In preparing the plan a consideration of almost paramount importance was the maximum size of Vessels for which the accommodation should be suited From the average increase in size of the ten largest vessels trading to the Port it would appear that an the large of 600 feet in length and 70 feet in beam for the large of 500 feet in length and 70 feet in beam for the large of the comparatively the largest vessels is probable in the comparatively near future while an increase to 800 feet in length and 80 feet in beam appears too remote for practical purposes But the increase in size of the average of the

The quantity shipped in that month was 89 tons and in that year of the quantity had increased to 3 99,7784 tons

twenty largest vessels in the world has been so rapid that a length of 1,000 feet and beam of 100 feet must very soon be an accomplished fact Already vessels of 782 feet in length are being built, and taking all the circumstances into consideration, the known economy of carrying large cargoes, the probable improvements in the navigable conditions of the river Hooghly from the use of suction dredgers, and the general tendency towards the use of larger and still larger vessels, it is considered advisable to make the dock entrances suitable for a much larger vessel than, with the knowledge of to-day, seems likely in the Calcutta trade The invariable history of dock accommodation all over the world is that the size of vessels rapidly overtakes the size of entrances At Liverpool, works of enormous magnitude are being carried out to increase the capacity of the entrance locks, and even at the Commissioners existing Kidderpore Docks, which were only opened in 1892, the length of the 60 feet lock entrance has twice had to be extended, and this entrance has already reached its limit of length Of course the 80 feet entrance can be used for vessels up to 600 feet in length, but even this is insufficient provision for the inture in docks designed to last for a very large number of years in Bombay will have an entrance 1,000 feet by The new docks recently commenced Too feet, and length between gates when used as a lock 750 feet giving all these facts the most careful dock of such magnitude as will probably suffice for docks of such magnitude as will probably suffice for fifty years' growth of trade—entrances of 800 feet and I 000 feet in length and 100 feet in width sizes will, undoubtedly, be criticised as being unwarrantably large, but it must be remembered that, while it is easy enough to pass a small vessel through a large entrance, it is impossible to take large vessels through small locks, and while the capacity may be largely in excess of the requirements for very many years to come, and that some loss may be occasioned by the expenditure of unremunerative capital, it will probably be unvise to limit the use of the docks in the future by constructing locks of smaller size In 1846, a committee appointed by Government to prepare proposals for docks in Calcutta, recommended that provision should be made for vessels of an average burthen of 400 tons. The average gross registered tonnage to-day is about 5,000 tons and the carrying capacity probably 7,500 tons was made only 60 years ago, and as the size of vessels has increased so much in that time there is no reason for supposing that the increase will not continue This proposal during the next sixty years Docks have a life of considerably over sixty years and unless provision is made for Vessels far exceeding in size those that now frequent the port, the Commissioners will be pro-

The entrances therefore, are, as stated, 1,000 and 800 feet long and 100 feet wide, and an intermediate gate will be given in each lock, so that there will be locks of 200, 400, 600, 80), and 1,000 feet long, which will prove economical in time and in water consumed in docking craft of various sizes, including country

"The outermost dock will be 2,400 feet long by 1.000 feet wide with 'arms' at either end, projecting southwards, one 1,000 feet long and 800 feet wide and the other 1,000 feet long and 600 feet wide, the water area being 861 acres Between these 'arms' there is room for the construction of two Graving Docks, one of which will be 1,000 feet long and the other 800 feet long, both with 100 feet wide On the river face between the two entrances entrance locks 2,200 lineal feet of jetty quayage can be constructed, and the transit sheds for these four berths will be connected to the general railway system. The quayage of Dock No 3 will be 9,500 lineal feet, and twelve berths varying from 500 feet to 550 feet in length can be arranged Including the jetty quayage, there will be in this accommodation 11,700 lineal feet of quay and sixteen berths

"Dock No 4 is a continuation of the eastern arm of Dock No 3, and connected thereto by an entrance

feet 100 wide The size of this dock 4 750 (cet in length by Soo feet in width, the area being 87 acres, the quajage 10,800 lineal feet and the number of berths sixteen varying in length from 500 feet to 700 feet channel will connect this dock with the existing

docks, so that the whole system is linked up, and vessels enabled to pass from any point to any point without going out into the river. In the event of an accident to the entrances of the existing docks placing them temporarily out of use, access could be obtained through the new docks and connecting channel

'Dock No 5 is 4,900 feet long by boo feet wide being a prolongation of the western arm of Dock No 3 with an entrance 100 feet wide. The water area is 67½ acres, and the quayage 10,400 lineal feet with twenty berths varying from 450 feet to 550 feet in length. It must be remembered that the number of berths here planned is merely an illustration of the capacity of the docks, as the actual length of the berths will be determined from time to time as they are provided. The whole scheme readily lends itself to construction by instalments, Nos 3, 4 and 5 being built one by one as the demands of trade may require

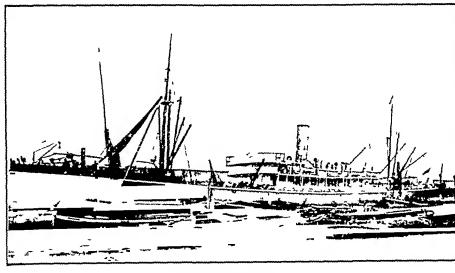
"The total dock accommodation shown in this proposal including that which already exists, will consist of--

	Existing	Proposal	Total
Entrances	2	2	4
Aren	62 5	283	34_ 5
Quayage (lineal feet)	11,400	38 700	20,100
Berths	21	62	83

"The depth of sill at the new entrances should not be less than 20 feet, probably more, as compared with 17 feet at the existing docks, and the depth of water in the docks not less than 35 feet eventually. No method has been shown for obtaining the necessary supply of water, as this must be dependent upon the position of the canal south of the docks, proposals for which are now being prepared by Government. If the construction of the canal is not sanctioned the present boat

canal can be enlarged or a new one made

"It has been suggested that evicusion of accommoda tion should be provided by more jetty berths instead of by docks, but it is obvious that the provision o i 32,900 lineal feet of jetties (the length of quayage in •the propos-



P & O S S NAMUR

ed docks) would not only have the disadvantage of spreading the work out over an unreasonable length, but would also practically shut out access to the river for a distance of over six miles, whereas the entrance works to the new docks only occupy a frontage of less than three-fourths of a mile. That is to say, the 52 berths in these docks take up river frontage sufficient only for six berths."

At the time of writing this article a large capital sum has been expended towards the execution of this programme. The land for the new dock area is being acquired, the warehouse accommodation throughout the port has been greatly extended, and the mechanical equipment of the docks and jetties brought thoroughly up-to-date

THE SHIPPING AND TRADE

To a mercantile nation the history of its ships—those 'shuttles of the loom of Empire'—must always appeal

with a peculiar fascination. The first Fullog ship to summount the tortuous and difficult passage of the Hooghly River was undoubtedly a Portuguese vesel, possibly a unit of the fleet of Vasco da Gama (1497), for soon after they had established their first footing in India on the Malabar coast, the Portuguese continued their explorations for the development of trade and early tapped the great Ganges Valley with its rolling tide of river-borne commerce

The name of the Portuguese pioneer vessel we cannot quote but the first English ship intended for Hooghly Town vas the Lyoness, and she suited on her long voyage at the Cipe of Good Hope in 1650. As Sir Chas Stevens virtes—' the Agents at Madras would not peimit her to attempt the navigation of the river to that place (Hooghly) and she was sent only is fit as Balasore with a cargo of money and goods valued at \$7,336-17-5'. The difficulty of the river for many a day restricted the free movement of ships, and that part of the story is dealt with in the section of this article dealing vith the approaches to the Port. The Hooghly River was the Falcon, which in 1678 conveyed to Hooghly Town a cargo valued at over \$40,000 and by a curious coincidence it appears that is I alcon wis the first steam vessel that came up the river.

The season for the despatch of the home fleet was in the early months of the year and the London Board of Directors wrote the Council as early as February 11, 1756, offering rewards as a stimulation to captains of vessels despatched late in the season this letter, by the way, must have reached Calcutta when Fort William was in the hands of Siraj-ud-daulah

'We have revived our orders for encouraging the Commanders of such ships as may happen to be despatched from Bengal and Fort St George after the 3rd March to use their best endeavours to get about the Cape of Good Hope and thereby gain their passige home the same season, by promising a gratuity of two hundred guineas in case of a French war and at other times one hundred guineas at the same time they are acquainted that at whatever time they are despatched, if it shall appear they do not use their best endeavours to gain their passage, they are liable to be rendered incapable of the Company's service, which we mention for your information in order for your reminding the Commanders thereof and for your doing on your part whatever may be necessary for encouraging and enforcing their compliance with this part of Upon occasion of some their instructions late differences with the owners of our shipping with respect to demurrage, it is necessary to make a standing rule and you are to observe it as such accordingly Carefully take notice whether the Commanders of our European ships loiter or mis-spend their time "

The voyage to England was long and tedious, six or eight months, and to the natural risls of the sea, were added those of war for Fngland throughout the eighteenth century, was more often at war, than at peace, and the only warning a Company's ship oft time re-

ceived vas the hal of an enemy's frighte. Swift voyages vere, however, made by first ships vino rivalled the later performances of the famous clippers, and it is on record that the sloop Syren in the very 1758, made the voyage to England "in less than four months." Mention of war rists, recalls the fact that the head of the Bay vas a favourite cruising ground for French frightes, and many a vessel has been so captured at the Sand heads.

The following return of shipping and ships dues for the four months ended 30th April 1759 shows the revenue of the Port of Calcutti one and a half centuries ago.* This statement is taken from the India Office records and is entitled "An account of pass money due to the Hon ble Company on the several ships and vessels which have sailed out of this port (Calcutta) between the first day of January 1750, and this 30th April 1759.

	PACE	Þ	٨٠	þ
Still - Maxifield bath now ton Bankshall data Injeke Anchory	3 0 0 0 3 0 0			
Sim -D Hilly totals Linkshill duty and inchering	150 6 0	313	0	O
Sun - Hel me-100 tons Bankshill duty and anchorage	100 0 0	167	0	0
Ston -Aancy-to ton Bull hill duty and anchorage	60 0 0	113	0	D
Show -All i Double-100 tons	100 0 0	73	0	0
Bankshall duty and anchorage St 001 - Greege-30 tons	30 0 0	113	D	O
Bankshall duts and anchorage Ketter — limet 1—9 tons	13 0 0	43	0	0
Bunkshall duty and anchorace Skow — Better—100 tons	13 0 0	108	υ	U
Bankshall duty and anchorage	13 0 0	113	0	0
Sun -1 rt II illi n -200 ton Bankshall duty ind anchorage	13 0 0	-13	o	o
Skow -Cri lina-80 tons Binkshall duty and anchorage	80 0 0	93	0	0
Scott -Hu eromull-20 tons Bankshall duty and anchorage	20 0 0	33		o
SHII -Drake-280 tons Bankshall duty and anchorage	290 0 0 13 0 0	-		
Skow — Fanny – 80 tons Bankshall duty and anchorage	80 0 0 13 0 0	293		0
		93	<u> </u>	0
	Current Rs	1,764	0	0

The Bankshall was the old Port Office of the Honourable East India Company, and its site is indicated by the Bankshall Street of modern Calcutta — Ingellee on the west bank of the Hooghly estuary, was the anchorage at which it was customary to work out some of the cargo to lighten the vessels before negotiating the river channels. As we have already mentioned, Ingellee was one of the places at which Charnock essayed a footing after the evacuation of Hooghly

^{*} Vols I and II, Early Annals of the English in Bengal, give a number of lists of vessels of the Company's Furope fleet in the first quarter of the eighteenth century from which it would appear that the tonnage ran up to 400 tons with an average armament of some 30 guns

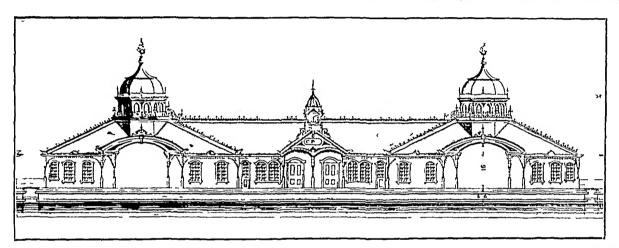
The larger vessels shown on the table were, no doubt, part of the Europe ships for that season—the Muxadabad (Moorshedabad), the Doddalay, the Fort William, and the Drake The Doddalay was one of the vessels which were in the port in June 1756, and from its decks the fugitives saw the great conflagration which destroyed Fort William and the settlement

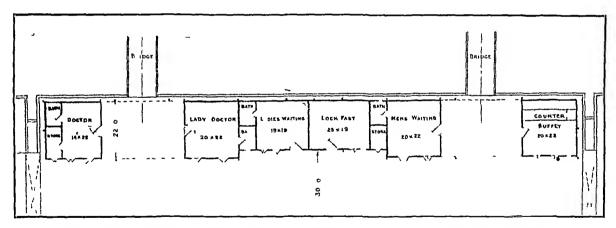
A Skow, by the way, was a vessel with two masts resembling the main and foremast of a ship, and a third small mast just abaft and close to the mainmast

carrying a trysail

the effect of the expansion then taking place was not yet reflexed in the shipping and trade By 1795-6 however (quoting Sir Charles Stevens) 170 ships of a total burden of 57,696 came to the Port from places outside the territories of the three Presidencies, and 184 ships with an aggregate tonnage of 67,785 went out to such places

From the earliest days it had been a cardinal point of the Company's policy to put every restriction on outside traders, and this continued to be the case in degree until the early days of the nineteenth century





PROPOSED NEW PASSENGER LANDING STAGF FOR OCEAN GOING VESSELS AT OUTRAM GHAT, CALCUTTA
THE ILLUSTRATIONS SHOW THE CENTRAL PONTOON OF THREE

Bankshall, etc, duties, or Port dues, for the four months quoted amounted to less than two thousand rupees, and in the ensuing year 1st May 1750 to 30th April 1760 there sailed from Calcutta "30 sloops and vessels yielding Rs 3,964 in pass money or one rupee a ton" For the year 1908-09 the Budget of the Port Commissioners of Calcutta estimated the revenue at nearly 120 lakhs of rupees The period quoted was, however, one of great trade depression, for although the victories of Admiral Watson and Lord Clive had re-established the Company's authority,

when in 1813 the embargo was finally removed. This measure at once resulted in a great increase of tonnage, which by 1817-18 amounted to 428 ships and 161,346 tons.

The following particulars are taken from an advertisement for shipping charters in 1813 "Sealed proposals will be received at the office of the Secretary to the Board of Trade (Calcutta) for freighting for one voyage ships built with teak of the burthen of three hundred tons or upwards to carry cargoes from the Port of Calcutta to the Port of London" "The ships

shall have three flush decks, or two complete decks and a poop, and be coppered " "The ships shall be armed as follows —

Ships of 300 tons to 400 tons not to have less than 12 carronades, 9 pounders

Ships of 400 tons to 500 tons not to have less than 14 carronades, 9 pounders,

Ships of 500 tons to 600 tons not to have less than 16 carronades, 12 pounders

Ships of 600 tons or upwards not to have less than 18 carronades, 12 pounders

Fvery ship

to carry a stand of arms and a cutlass for every man on board

Every ship to carry not less than thilty rounds of powder and shot

Every ship to have a boarding net (Should these articles not be procurable substitutes to be allowed at the discretion of the Master Attendant)

The crew of each ship on her departure from Bengal shall becomposed of two-thirds at least of European seamen provided they can

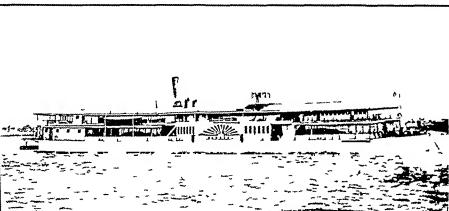
be procured

Throughout the period with which we have been dealing the wooden ship wis, of course, the type construction, and the progress of naval architecture was along conservative lines. The era of phenomenal expansion of trade and shipping is arrived at with the introduction of iron ships and steam propulsion. Before glancing at this liter chapter, however, we must note the shipbuilding industry which flourished on the Hooghly in the days when Indian teak-built ships formed no insignificant.

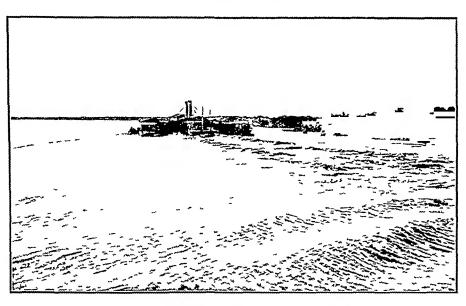
insignificant
portion of
the fleet of
wooden
walls of Old
England

The Calcutta Gazette of November 11th, 1813, records "the launch of the fine new ship of 1,200 tons which took place at the yard of Messry Kyds on Monday'' The launch was attended by "His Excelle n c y the Governor-General, the Countess of Loudon and Morra the Earl of Unito, Sir George Nugent, and almost all the beauty rank and fashion of Calcutta She was named the General Kyd by the Coun tess of Lou-





DESPATCH STEAMER ' MADAYA" INLAND RIVER SERVICE



I G S N COY'S STEAMER 'LAHORE" WITH TWO FLATS IN TOW

Should any part of the crew consist of lascars they shall be reckoned in the proportion of 45 lascars to thirty European seamen, but three-fourths at least of the lascars, employed on each ship, shall be composed of natives of the Honourable Company's territories'

Twenty-five years later (1842) the number of ships entered inwards was 646 with a total tonnage of 262,251

ed by a tiffin, at which thirteen toasts are recorded. We cannot quote them all although they reflect the spirit of the times. The first, proposed by Earl Moira, was "The General Kvd," and success to the establishment who have launched so fine a ship." The sixth we must also give it was "The Duke of Clarence and the Navy and may the Port of Calcutta succeed in convincing the world that it is capable

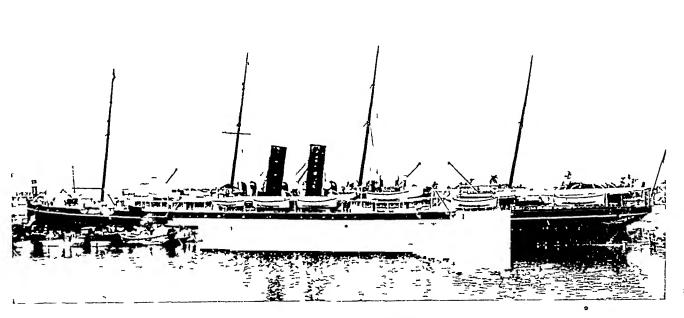
of adding to the Naval strength of the Empire' That Messrs Kyd's yard was not alone in building fine ships is shown by the same Gazette which records the launch of another vessel of 1200 tons from the yard of Messrs Gilmore & Co This vessel was christened by Sir George Nugent the Vansittart and was built for the Company's service

Steamships built of steel have now ilmost entirely ousted the picturesque sailing ships from the Hooghly

A table of the past and present vessels of their fleet issued by the Peninsular and Oriental Steam Navigation Company gives in compact form a review of the great growth of steam navigation in the Fast Beginning with the wooden paddle steamer William Faa cell in 1829 of 206 tons, by 1850 the type vessel was the Ganges of 1,190 tons, iron built, but still

mediate' type of vessels of the P and O fleet, and a regular visitor to the Port of Calcutta

No article dealing with the shipping of the Port would be complete without a reference to the vessels that ply on the inland waterways which extend through the great plain of Northern India and through Assim to the Himaliyas. These vessels are indeed the complement to the great ocean-going ships which take up and discharge cargoes in the Port, and they serve the duty of distributaries. The function and scope of this far-reaching system of waterways has been to some extent obscured by the great systems of railways which now converge upon the Port, but throughout the greater part of its history it has been these waterways which fed its trade and which still indeed contribute greatly to its commerce



THE P & O SS "HIMALAYA"

a paddle boat In 1860, the first Massilia, one of the last of the paddle steamers, was built, her tonnage being 1,640 In 1870 tonnage took a long step forward with the Australia, 3,664 tons gross and screw propelled In the next decade, in 1881, the Rome was built, with a tonnage of 5,013, subsequently lengthened in 1892 with a tonnage of 5,628 This ship was re-named the Vectis In 1894, the Caledonia, now a seasonal visitor to the Port of Calcutta, was built, her tonnage being 7,558, with triple expansion engines of 11,000 h-p The list closes with the fine "M" class vessels of 10,500 tons and 13,000 h p These last vessels, however, have not yet visited Calcutta Port, and we select for reproduction a photograph of the SS Namur, which is one of the largest of the 'inter-

From the early days of English settlements in Bengal till the mid nineteenth century the inland trade was entirely carried in country boats of the types which every visitor to the port has seen. Then design is of immemorial antiquity, and it is particularly interesting to note that the model boats recently unearthed by Professor Flinders Petrie from tombs of ancient Egypt, several thousand years B C, show the same high stern for the steersman and low spoon-shaped bows

Very early in the history of steam navigation, steam propelled vessels were built for the Ganges trade, and these were the pioneers of the extensive flotillas owned by the India General Steam Navigation Co, the Rivers Steam Navigation•Co, the Calcutta Steam Navigation Co, and other concerns The services

The Port of Bombay.

Bombay is the capital and the chief sea-port of Western India It is the most southerly of a group of islands which engineering skill has transformed into a peninsula, and its area is about twenty-two square Previous to the acquisition of Bombay by the British in 1661 the East India Company had held trading ports at Madras, on the Hooghly, and elsewhere, but Bombay is interesting as England's first step towards dominion in the East, and is itself a monument to the imperial and commercial spirit of the It is the only valuable possession which we owe to the Stuarts, having been ceded to Great Britain as part of the dowry of the Portuguese Infanta, Catherine, on her marriage with King Charles II to this period Surat had been the principal seat of British enterprise and settlement in Western India, but in 1668 King Charles, considering Bombay an unprofitable possession, handed it over to the East India Company, to be held by them on pryment of the

annual rent of £10 in gold

One of the first things the Company set itself to accomplish on assuming possession was the construction of a harbour, with docks A good deal of money was expended on the defences of the island, but in addition to the discouragement due to the unhealthiness of the place, the early settlers in Bombay had powerful outside enemies to contend against, and the English, cooped up in their little islands, could make but small headway But they understood the real value and possibilities of Bombay and as early as 1686, or less than twenty years from the time the Company took over the island, orders were sent out from Home to transfer the seat of Government in Western India from Surat to Bombay, which was declared to be "the seat of the power and trade of the English nation in the East Indies ' Then followed the dissensions between the old and the new East India Companies regarding trade, which threw the settlement into a state of anarchy and checked for many years the progress of the port, until in 1708, the two Companies, having adjusted their difficulties, were fused into the United East India Company, and progress once more began to make headway In 1736 the first graving docks were opened, but nearly one hundred years previous to this the East India Company had been obliged to build ships of war to defend their trade against the Malabar These ships had been built at Surat, where the Company's factories had been first established, but with the construction of docks at Bombay a period of remarkable activity in this direction may be said to have set in The docks were in constant use from the day of their completion, and the dockyard was for a long period celebrated for turning out first-class menof-war In the year 1800, a 4 gun frigate, the Cornwalls, of 1,363 tons, was built for the East India

Company, and afterwards the Admiralty ordered menof-war for the king's Navy to be constructed number of war vessels were built in this dockyard, carrying from 10 to 86 guns. The last man of-war was the Meanee, built in 1847, carrying 84 guns and of 2,400 tons burden Merchant vessels of the largest class constructed in those days, of from 1,300 to 1,400 tons burden, for the cotton trade, with China, were also built in these docks, and from the year 1840 a number of steamers were built, besides schooners, pilot boats, and a number of vessels of smaller size The timber having to be brought from a great distance, ships built at Bombay were very costly, but being entirely constructed of teak, they were very durable. In 1843 there belonged to Bombay, mostly to native merchants 58 ships of the aggregate burden of 32,000 tons, of which six only were under 200 tons ships were employed in the China trade, and in the trade to England and other places, and were all built in the Compiny's old dockyards, known as the Upper, Middle, and Lower Old Bombay docks respectively In 1854, two large steamers, the Assaye and the Punjab, each of 1,800 tons, were built at these docks, but since that year, owing chiefly to the introduction of iron instead of wood for ship-building, and the consequent advan tage of having large ships built in England, shipbuilding at Bombay has been restricted to a smaller class of vessel Before the introduction of steam Bombay possessed, in addition to the larger class of vessels abovementioned, a numerous fleet of native craft of very large aggregate tonnage These vessels, besides furnishing the city with its local requirements, used to coast from Cape Comorin to the Gulf of Cutch, and sometimes cross the sea to Muscat and the ports in the Arabian Gulf Up to the early part of the nineteenth century, however, the total trade of the Port of Bombay was of no very great amount The small and sterile islands of Bombay afforded no produce for exportation, nor did the whole Presidency yield, with the exception of cotton, rice, and coffee, any of the great colonial staples, a circumstance which may perhaps be ascribed to the impolitic restraints upon the employment of British settlers and capital that were long imposed by law, and acted upon with peculiar rigour in Bombay and the sister Piesidency of Madras Bombay in those days, before the introduction of railways, was also much less favourably situated in respect of internal communications, and all the inland trade had to be carried on by means of roads that were seldom in a fit condition for cart-traffic, and could only be used by packbullocks and camels, while trade with the Deccan had to struggle with the mountain roads But with the abolition of the transit duties, by which the inland trade had been grievously oppressed, the abolition of the restrictive system in 1815 and, later on, the construction



of lines of ruly as to the prine polmarlets in the interior, a great increase in the trade of the toy in resulted. Then the establishment of the overload monthly service to Figland in 1858 made bombas the Imperial port of India though her claims yere not often ally recornised till 1808, since when Bombas has been the port of arrival and departure of all Finglish made, and troop

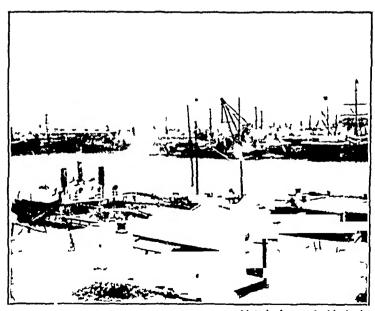
Prince & Dacis, Bowns

ships. With the open me of the Sucz Canal her commercial importance vies still further enhanced, and with the triumph of engineering still over the precipitous vill of the Ghats, she became the vestern terminus of the Indian Rady vy systems.

It vas in 1858 when the Hiphinstone Land and Press Company vas formed that the Port of Bombay as ye I nov it to day began to assume shape. The Company commenced operations by reclaiming about tventy two seres of sev ground and building varehouses for They also creeted a cotton merchandise press which did not prove a success Four years later a larger scheme was talen in hand and in the ensuing nine vears over seven millions of cubic vards of material very deposited a land and dock estate vais laid out containing for the land estate over one hundred week of building plots, nine miles of roads from forty to cighty feet vide and ten-miles of drains. The dock estate comprised about seventy acres of whatfage and sites for sheds and varchouses ten

acres of metalled wharf, about six acres of sheds, over two miles of permanent wharf valling forming two basins and one bunder. At the time this scheme vas first put in hand (1862), the commercial prospects of Bombay appeared particularly bright, the Civil War in America vas just beginning, and the blockade of the ports in the Southern States was cutting short.

the cotton supply of England and that vas affecting the exportation of cotton from Bombay. The produce of all the erect cotton fields of India Nigpur Bergr Guzerat the South Mahratta country found its vivy to Bombay in order to be exported to I naland with all possible despitch while the high prices ruled and the block ide of the Southern ports lasted The effect upon the city of Bombay and ill the vist interests connected with it vas magacal. So sudden vas the demand so high the range of price and so vast the profits that an economic disturbance set in Three years of instance speculation followed during which immeral as or it one formed for various purposes spring up life mushrooms. Then cime a period of chill in reverses. The longprotricted resistance of the Southern States collapsed with startline rapidity frest quantities of American cotton entered the Linglish market the price of the Bombay cotton fell and many of the enterprises that had been founded upon the expectation that those prices vould be maintained began to crumble to pieces Nevertheless a mass of real



Thoft by Litterne & Shepherd

PRINCI'S DOCK, BOMBAY

wealth, to be reckoned by many millions sterling, had been poured into the lap of Bombay, already a wealthy place, and this was quite enough to justify a large expansion of legitimate enterprise Sir Bartle Frere, who was Governor of Bombay at the time, took the most lively interest in the progress of railways within his jurisdiction, and three big lines were under construction The line from Bombay to Madras was completed, and the line from Bombay ascending the Western Ghat on the way towards Calcutta, and that from Bombay passing up the coast of Guzerat towards Raiputana, were in full progress In fact, every means

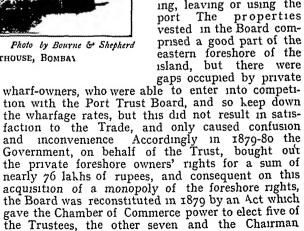
was adopted during the period of abnormal prosperity to improve the existing lines of communication and to inaugurate In Bombay new ones itself, among the many failures, must be mentioned the big scheme for reclaiming a large expanse of land from the sea This was known as the Back Bay Reclamation scheme, and it proved ultimately to be in excess of local needs Still, in its inception it was so well framed that the Government held shares in it, but they were wise enough to unload before the crash came One reclamation company held its ground throughout the crisis, however, and that was the Elphinstone Among other things the Company had entered into an agreement with the Government to proupwards of hundred acres of land for the Terminus of the Great Indian Perinsula Railway and other purposes, receiving in return the right to reclaim from the sea for their own advantage an area of 250 acres, fronting the properties they had previously ac-

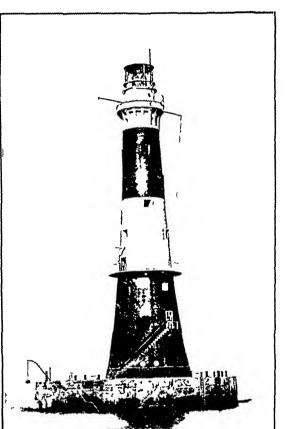
By this arrangement the Company secured a monopoly of the harbour frontage opposite the native town where the largest part of the country trade had been centered for years, whilst from the proximity to the Railway Terminus they were in a position to subject a very considerable portion of the entire trade of the port to wharfage and other dues When the crisis set in, the Company had practically completed their contract with the Government, and it was at this juncture that the Government of Bombay strongly urged upon the Government of India the desirability of buying out the Company and thus

regaining possession of the harbour foreshore, and of placing its administration in the hands of a public Trust After prolonged negotiations it was agreed in 1869 to purchase the Company's rights at the par value of the paid-up capital, and on the 30th April 1870, the property was taken over by the Government from the Company for a sum the equivalent of two millions sterling The intention of this purchase was to make over to the proposed Trust, on behalf of the trade, the possible commercial profits on the investment, Government consenting to supply the capital on the best terms but on the very distinct

understanding that the transaction should involve no addition to the public outlay and no reduction in the public income

The Act constituting the Board of Trustees was not passed until 1873, but in the meantime, with effect from the purchase of the Elphinstone property, the whole of the properties to be made over were managed by a department of Government on behalf of the new Trust, in anticipation of The first its formation Board was appointed in June 1873 it consisted of Colonel J A Ballard, CB, RE, as Chairman, and nine Trustees, of whom three were Government officials Shortly after this orders were issued abolishing the Harbour and Pilotage Board, and authorising the Trustees to receive the port dues, pilotage or other fees leviable from, or in respect of vessels enter ing, leaving or using the port The properties vested in the Board comprised a good part of the eastern foreshore of the island, but there were gaps occupied by private

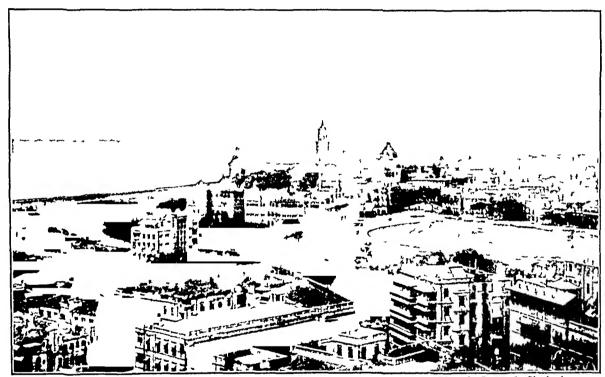




THE PRONGS LIGHTHOUSE, BOMBAY

being nominated by the Government, and it was provided that not less than three of the Trustees should be natives of India residing in the city of Bombay. The Board as atl, present constituted consists of the Chairman appointed by Government five Members elected by the Chamber of Commerce three native members nominated by Government as representing native mercantile interests and the Director of the Royal Indian Marine, the Secretary to Government Public Works Department (Railvas) the Municipal Commissioner of Bombay and the Collector of Land Revenue and Customs. The present Chairman is the Hon Sir Walter Hughes C 11 who has held the post since May 1892.

was in round figures, Rs 220 lakhs, including a deficit of six lakhs of rupees on the working during the interregnum pending the constitution of the Board During the first ten years the improvements carried out were mainly on the Elphinstone Estate, including the construction of the Prince's Dock, which was the first wet dock of any magnitude constructed in Asia. The foundation-stone was laid vith masonic honours by H R H the Prince of Wales (now the King-Emperor) on the 11th November 1875 the work was completed in 1879, and on the 10th April in that year the last stone of the walls was laid, and the water admitted into the dock with great ceremony by the late Sir Richard Temple, then Governor of Bombay



THE OF BOSHAS AND BACK BAS

Photo by Bourne & Shepherd

IMPROVEMENTS MADE BY THE PORT TRUST

The properties vested in the Board, of Trustics at the outset comprised the Elphinstone Estate, the Wody Bay Reclamation, the Apollo Bay Reclamation, the Wellington Reclamation, the Apollo Picr, the Iank Bunder Estate (Timber Ponds), the Customs Bonded Warehouses, the Kasara Bunder the Saw Mills property and the whole of the property of the old Harbour and Pilotage Board, comprising principally of the Light-Houses at Kennery, Colaba, and on the Dolphin Rock, the Mazagon Pier, the Signal stations, the Lightships, Pilot Schooners and other craft. The total debt of the Board on account of these properties

The dimensions of the dock are 1,460 feet long by 1,000 feet broad, with a water area of 30 acres, and a total length of quay of 6,910 feet, including the effective portion of the harbour wall. It has two entrances, one 66 feet and the other 55 feet wide, and the sill at the entrance is 25½ feet below high water ordinary neap tides. The dock is completely equipped with sheds and with cranes which with the dock gates and the bridge across the entrance, are worked by hydraulic power. The material excivated in forming the dock was utilised for the further reclamation of Mody Bay to the south of the site. Among other works carried out in the first ten years were, the completion of the Frere Road across Mody Bay together with other roads necessary for the convenience of trade

and to open up building sites, the erection of an extensive range of permanent sheds for the storage of grain and the construction of a range of seven large warehouses adjacent to the Prince's Dock, for the

storage of piece goods and other imports

Very soon after the opening of the Prince's Dock it became evident that an extension of the dock accommodation was necessary for vessels of deep draught, and in January 1885 a contract was entered into by the Trust for that purpose The site selected was immediately south of the Prince's Dock, occupying the space originally taken up by the Musjid and Nicol Bunder Basins Work was commenced on the new dock, now called the Victoria Dock, in January 1885, and was completed in February 1889, when the water was let in by His Excellency the Governor The contractors were Messrs Kirby and Sons, who also constructed the Prince's Dock, and with them was associated in the work Mr John Fleming, who started the work of reclamation and various other improvements in the port at the early part of its history The Victoria Dock comprises a water area of 25 acres and affords a total length of quay of 7,805 feet, including the effective length of the outer harbour wall It has two entrances one from the sea, 80 feet wide, and the other, 64 feet wide, communicating with the Prince's Dock The sills in both cases are 274 feet below high water ordinary neap tides. The berths are fully equipped with hydraulic cranes and extensive ranges of sheds

The Merewether Dry Dock was the next large work taken in hand. Work was commenced in February 1889, and the dock was opened in March 1891. It has a length of 530 feet, and a breadth of 65½ feet at the entrance with a depth on sill of 25¼ feet at high water ordinary neap tides. Other extensive works carried out during the period 1883-93 were huge blocks of offices for the dock and traffic staff and for te administrative offices, ranges of warehouses for import goods at Victoria Dock, the filling up of the basin and other improvements at Apollo Bunder, and the deepening of the channel of the Prince's Dock

From 1893 to 1903 no single work of great magnitude was undertaken, but a large number of works of great importance were in progress for increasing the facilities for trade and shipping, and for developing the Board's properties at a total expenditure of Rs 66 lakhs wet docks were provided with a largely extended series of double storied sheds, for the coal trade a new wharf was built, provision was made for the storage in bulk of kerosine oil, and the Ballard Pier was constructed for the convenience of the passenger traffic Great progress was also made with the development of the Trustees' properties on the north, including the Sewri, Frere I and, Tank Bunder and Mazagon Estates, and much attention was devoted to the construction of new roads and the further improvement of old ones The present docking accommodation consists of the Prince's and Victoria Wet Docks and the Merewether Dry Dock, but a large and important scheme for further dock accommodation is now being carried out, and on the preliminary work in connection with this scheme the operations of the past few years have been mainly confined

The new works now in course of construction may be classified under four main heads, as follows -(1) The new Wet and Dry Docks, (2) The Port Trust Railway, (3) The Reclamation between Mazagon and Sewri, and (4) The New Bulk Oil Depôt at Sewri It became necessary, in the first instance, to provide for the large traffic at Mody Bay which will be displaced by the new docks, and for this purpose two broad jetties have been formed at Mazagon by reclamation, affording storage space to the extent of 26 acres, with an aggregate wharf frontage of 5,800 feet The Ballard Pier is being extended for a length of 825 feet seaward, to form the southern boundary of the area to be reclaimed by the material excavated in forming the new docks, and large purchases in the shape of new dredging plant and a fleet of capacious steel barges, with a special steam-tug to be used for the conveyance of material for reclamations have been made new hydraulic power station, with engines of 300 horse-power has been provided, partly to supplement the power available in the present docks, but with provision also for increase to afford the additional power which will be necessary for cranes, etc, in the The area of the premises of the Prince's new docks Dock has been extended, and further and improved facilities for the manganese ore trade have been provided and new sheds and more cranes have been added to the existing docks. The foundation-stone of the new dock the Alexandra Dock, was laid by H R H the Prince of Wales during his visit to Bombay in November 1905, and the scheme also includes a new dry dock, opening off the wet dock, both capable of taking ships of the largest size that are likely to visit the port within the next thirty or forty years The area of the wet dock is 491 acres, with a length of quay of 16,035 linear feet, including the harbour or outer wall The entrance is 100 feet in width, with a depth of sill of 35½ feet below mean high water level. The dry dock is to be 1,000 feet in length entrance 100 feet wide with sill 331 feet below high water ordinary neap tides The estimated cost of these docks is Rs 3,47,43,159 The contract with Messrs Price, Wills and Reeves for the excava-The contract tion and masonry was signed in April 1904, and provides for the entire completion of the works by ist June 1911

The Port Trust Railway scheme comprises two sections of line, of which the first is the G I P Railway Harbour Branch, extending from Coorla to the Mazagon Depot, with chord connection to the B-B and C I Railway This section is being made at the expense of, and is to be worked by, the G I P Ry Co The Port Trust section extends from the Mazagon Depot to the docks, a length of three miles The cost of the Port Trust section was originally estimated at Rs 10,26,113, while the estimated cost of the G I P Harbour Branch was Rs 53,50,404 But while the cost of the former has been considerably enhanced owing to the rise in the price of the properties acquired since the estimate was framed there will be a reduction in the cost of the latter, as it is not intended to make the goods depôt at Mazagon of the maximum dimensions in the first

nstance

The main idea of the reclamation between Mazagon and Sewri is to provide space for the grain, seed and cotton trades, and for a new stores yard for the G I P Ry Co, and this involves the reclamation of 232 acres, with a wharf frontage of one and a quarter miles A far larger scheme than this is, however, in course of being carried into effect, for the Trustees considered it prudent to make provision for future requirements and they were advised that by enlarging the area to be reclaimed it would be possible to carry out the reclamation at a very much reduced cost by means of suction dredgers, which would pump the mud of the foreshore, of which there was a large deposit, on to the area to be reclaimed A project was drawn upon these lines for reclaiming a total area of 583 acres, with wharf frontage of upwards of 2½ miles in length, the whole giving an addition of about 4½ per cent to the area of the city This work was put in hand in 1907, and will be completed about the same time as the new docks

The remaining necessary improvement was the removal of the Bulk Oil Depôt and the Timber Ponds to Sewri This work is well in progress, and includes a site of 61 acres, a deep water berth for the tank steamers and a length of 11,000 feet of low pier for the pipe line from steamers to tanks

Since 1879-80, the Port Trust has had control of practically the whole trade of the port, the exceptions being coal and stores imported for the use of the P & O and the B I Steam Navigation Companies, and of the G I P and B-B and C I Railways, which are landed at the wharves owned by these Companies With the exception of coal, kerosine, timber and dates, the greater part of the foreign trade of Bombay is dealt The coasting trade carried in with at the docks square-rigged vessels is also dealt with principally at the docks, while that carried by country craft goes wholly to the bunders and tidal basins, the chief of which are the Sassoon Dock, Victoria Dock, Arthur, and Carnac Basins, to the south of the present docks, and the Kassara Basin to the north A very considerable business is at present done at these, but as the facilities for the trade are gradually completed at the northern end of the harbour, the trade will naturally be shifted to that locality, and the basins and bunders at the Colaba end of the island be set free for reclamation and sites for building purposes The immediate result of the completion of the works now in progress will be to double the existing dock accommodation of the Port, to provide a splendid Graving Dock, and to shift the heavy traffic in cotton and other goods from the roads and streets to its proper place, the goods depot and the vicinity of the docks. The aim of the Trustees is, not to raise as large a revenue as possible, as would be the object of a private concern, but after due provision for docking and shipping facilities, present and future, to make the charges on commerce as light as possible, and the fact that Bombay is one of the cheapest ports in the world is sufficient evidence that the legitimate claims of trade have been well kept in view, while making full provision for present facilities and future expansion

EXPENDITURE AND REVENUE

The total expenditure on Capital Account up to the 31st March 1907 stood at Rs 6,97,35,422, of which Rs 4,26,10,773 represented the expenditure on ordinary works The balance was distributed as follows—

Prince's Dock	Rs	89,90,350
Victoria Dock	Rs	1,19,21,529
Merewether Dry Dock	Rs	11,68,259
New Docks Construction	Rs	50,44,510

This large debt is represented by properties which have largely increased since they were originally taken over by the Trust, and which are steadily increasing in value, and the repayment of the debentures is provided for by regular Sinking Funds Since the completion of the Victoria Dock the entire expenditure has been met by 4 per cent debenture loans, which stand in high favour with the investing public last four loans have been raised at prices ranging from 1 to 41 per cent premium The above figures give the cost price of the properties vesting in the Board, but from this amount Rs 19,68,007 must be deducted, as this amount was realised from the sale of land, plant, etc Taking into account the two loans issued in 1906-7, the total debt of the Board at the close of the year amounted to Rs 6,67,30,637, of which Rs 3,02,14,961 are due to Government, and Rs 3,65,15,676 are on account of the foreshore securities and debenture loans

The income and expenditure of the Board have each shown a progressive increase for some years past. At the same time, the surplus of income over expenditure has increased in a far greater ratio, and whereas the average surplus for the five years ending 1901-2 was Rs 1,00,830, the surplus for the year 1906-7 was Rs 10,41,870. The revenue receipts have, for the past ten years, shown an average growth of about three lakhs of rupees per annum



The Port of Madras.

THE following sketchy account of old Madras is taken for the most part from ' Madras in the olden compiled from official records by I Talboys Wheeler Madras Higginbotham 1861 With so much for acknowledgment ve proceed to quote freely where necessary in offering to the readers of this publication an account of the early history of Madras and of its ' From time immemorial the rich productions of India had been eagerly desired by the civilized vorld Her cotton spices jewels and perfumes had been carried up the Red Sea to the courts of Solomon, of Masuerus and of the Cæsars and during the middle ages many of her choicest productions were conveyed by the Venetian merchants from the ports of Egypt to the courts of European Kings" Indeed, it seems probable that the ships of those times were, for all practical purposes, the same kind of Arab dhow, with deep midrib keel and long raking bow and stern which, even in the present day, are often to be seen by passengers between India and Europe in the performance of similar voyages, between Suez and Aden and between Aden and Bombay On the Medi terrane in side the Phanicians in the early days, and later the Venetians had more or less the monopoly of this lucrative trade. But with the discovery by Spun of Mexico and Peru, and by Portugal of the route to India round the Cape there came a revolution in this long established carrying trade and from a v 1500 to 1600 the monopoly having fallen into Portu guest hands the traders of Europe had to frequent the markets of Lisbon for the much coveted Indian products. The chief of these traders were the Dutch tho in the 16th century had practically become the carriers of Europe In 1580 they threw off the voke of Spun forming themselves into the United Prov-in is and a Spanish King Philip II—our friend of Armada fame-who had obtained the Portuguese Crown vis short sighted enough to exclude the Dutch from his dominions in revenge for their secession

This policy proved most suicidal. The Dutch instead of being good customers became formidable rivids—instead of purchasing Indian commodities in the Lisbon markets, they pushed on bravely to the Indian seas, and soon became ruinous competitors with Philip's Portuguese subjects for the Indian tride.

Thus the Dutch become great traders working direct between Europe and the Orient, instead of its heretoto e being to all earners only from Lisbon onward. At first, they between the from interfering with the Politices trade in India proper and directed the rattection to Separate Live and the Mulay Archipelago where as everybold Frows, they are still going quite strong. In 1880 the started the refactory at Bantam and later their Live Intervals become Batavia but it vis for until 1990, that they erected a fort at

Pulicat some 23 miles north of the present Madras In 1660 they took Negapatam from the Portuguese and in 1663 Cochin, and thus became the most important European traders on the Malabar and Coromandel coasts. In most of these old world factories are still to be found their solid walls and stoutly doored houses, their churches, their tombs and their descendants,—these last, for the most part though of course there are exceptions, scarcely distinguishable now, after two and a half centuries, from the children of the soil

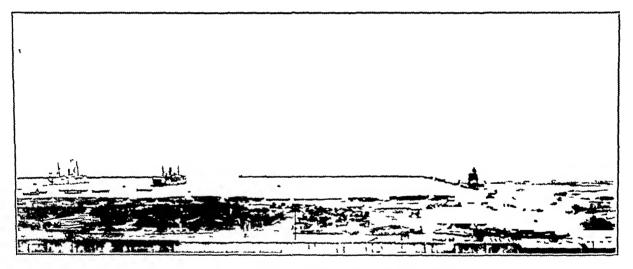
Thirty-five years after the dispersal of the Spanish Armada the merchants of London conceived a strong desire to share the lucrative Indian trade with their neighbours-sometimes enemies, sometimes friendsthe Portuguese and the Dutch So the first Court of the "East India Association" was held on the 23rd September 1600 and in the following year the first fleet of four ships set sail for the Indian Archipelago, with a view to deal in spices Just then the English were in friendly alliance with the Dutch, but did not care to risk further quarrel with Spain by trying to trade on the coast of India proper where the Portuguese had their factories I arge profits, stated at 100 to 200 per cent, were earned from these early voyages, our factories being Acheen in Sumatra and Batavin in Java About 8 or 10 years later both Dutch and English directed their attention to the cotton cloths made in such quantities by the hand weavers of India, and in order to get in touch with this trade the Dutch, as already mentioned built a fort at Pulicat, a few miles north of the present site of Madras The English found it less easy to establish settlements on the Indian coast, for their enemies the Portuguese were already established at St Thome (now a suburb of Madras) and at other places on the Coromandel coast, and with Goa as their chief centre they were very strong on the Malabar side However in 1612, the English got hold of Surat after much fighting with the Portuguese, and kept hold of it under a firman of the Great Mogul, on condition of a duty of 32 per cent to be paid on all goods. Unluckily, the friendship between the Dutch and the English did not last for ever. They had a strong dispute about some question of the spice trade and the English being for the yeaker just then in the List hid to leave Pulicat where, as in Java and Sumatra they had been trading percefully alongside the Dutch They had however, already effected a settlement in Masuhpatam. Then came the Amboyna missicre v here the Dutch killed off all the English on one of the Spice Islands and thereafter for generations, there was deadly enmity between the vhilom friends In 1625 the Lighsh obtained a piece of ground for i settlement at Armaghaun about 40 miles north of Pulicit, vorking it in conjunction with their Masulipatam settlement

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MADRAS HARBOUR FROM THE SOLTH WIST

At this stage we come to the first that we know of Madris port proper and here with advantage Mr Talboys Wheeler may again be quoted. Mr Francis Day who had been despatched from Masulipat im to examine the country in the neighbourhood of the Portu-guese settlement of St tThome - 'met with unexpected success. He found that though the surf was he may and dingerous, yet the locality was favourably situated for obtaining coast goods. Moreover he received great encouragement both from the Nitive powers and the Portuguese. The Naick of the district promoted his views to the utmost and from the Raith of Chandri giri he procured for him a grant of land with permission to build a fort whilst the Portuguese at St Thome behaved to him in the most friendly minner and offered to give him every assistance in forming the new establishment The territory granted extended tive miles flong shore and one infind. Thus was founded the first establishment in Midrispathim in 1639 in the reign of His Majesty Charles I and just

posal for the construction of in irriberal harbour with a view to the mitigation of the surf trouble which was in precisely the same state then as when Mr Irmeis Div found it so bid in 1639 For all up and down the cast and vest coasts of India the physical condition are alife-except at a fever exceptional points life Vizagapatam and on the vest coast north of a certain degree of littlide - namely a low sandy shore perpetually heaten by shorey and rolling vaves varying in violence according to the time of year and the trength and direction of the vind but never entirely absent the vine the case 300 or for that matter 3,000 vears ago, so to day at as only on very exceptional days in the very-probably not in is many as ten days in any year-that a boat built in the ordinary fishion of European boats can safely come ashore from a ves ellipsing of the coast. And if the bringing of such a boat ishore is difficult or impossible without her being stived in to Liunch her is even more difficult. It may be said that the surf is



MADRAS HARBOUR, SOUTH AND I AST BELAKWATER

before the breaking out of the great civil war." The grant obtained from the Rajah of Chandragiri was dated 1st March 1639. Soon a fort was built, though in 1652 its garrison consisted of only 26 soldiers. In 1653 the Agency was raised to the status of a Presidency, with supremacy over the factories of the Coromandel coast and of Bengal. Sir Edward Winter, who was appointed in 1661 was the first President of whom we have any reliable knowledge.

As this is not a history of Madras but of the rise and growth of its port and of its trade, we may refrain from enumerating the many vicissitudes passed through in the centuries by the growing Presidency, of which some of the most interesting have to do with its passing out of the hands of the French and with our many years of struggle for the mistership of India with that nation. Sir Edward Winter was superseded in his command in 1668 and just 200 years later, 31st January 1868, the Madras Chamber of Commerce made the first definite pro-

practically never so slick as to allow a boat built in Europe fashion to be launched from the shore for the service of a vessel lying outside at inchor. The effect of this on communication between slip and shore in the absence of some kind of a harbour to calm the surf will be obvious. Trading vessels have always been obliged to employ the country style of boat for the embarkation and debarkation of cargo.

As already remarked, there are exceptional places. These usually are places where rivers run out into the sea, practically always through sand bars over which heavy surf rolls for most days in the year. But the rowers, or rather paddlers, of the native boats are clever at negociating such bars without disaster, and even if there should be an upset, the boats themselves float unhart even though eargo be lost, and as for the crews they are more or less amphibious. In the old days of sailing ships and long voyages, vessels reached the coast of India with their bottoms covered inches deep with marine growths.

of all sorts which clogged their speed, and it was neces sary, if they were to make a good return voyage and be able to outsail a potential enemy, that they should be carcened and cleaned This was quite impossible on the surf-beaten coast except at the few places where owing to the debouchment of rivers from the interior, there existed calm backwaters into which, when the tide was high and the surf over the bar not too violent, a vessel drawing 10 or 12 feet of water might perchance be warped Clearly then such creeks as these though absolutely useless to modern ships and of value only as affording shelter to cargo lighters, were much sought after by old time sailing ships, and it is because of such mud creeks that places like Negapatam, Masulipatam and Vizagapatam owe their existence as ports. Vizigipatim with its high rocky headland the Dolphin's Nose, offers shelter to Coconada lies in a curve in vessels in certain winds the coast of large radius but still curved enough to afford at times comparatively smooth water and cargo boats can communicate with the canals and backy aters of the Godaveri

It is difficult nowadays to realise what attraction Madras had to offer to the traders, from the nautical point of view—and this point of view could by no means in the old days be set aside. To be sure, there is the Adyar river just south of the Portuguese settlement of St. Thome with its Ingoon and its bar the latter quite closed for perhaps eleven months of the year and scarcely negociable in the remaining month, even by the local surf boats, still less by framed boats. Then, again, there is the Kum ("Cooum") river, with a bar quite as impracticable as that of the Advar The fort of Madras is built on this little river and it may be conjectured that, useless as it seems to be novadays, it was at least better than nothing in the old days and that its existence had some sort of an influence on the choice of a site for a settlement. It may be taken as practically certain that the heavily framed ten-ton lighters now in use at Madras were non existent in the old days and only came into use when the old screw pite pier was built The only class of boats capable some 40 years ago of service in those days were the masulah, or surf, boats, consisting of planks roughly laced or sewed together with string, a long, continuous half sausage of straw being squeezed by the string lacing all along These the jointings of the planks on the inner side boats, of which every port on the coast has some scores, have bottoms of flat planks and sides of the same sort of planks, not nicely sawn, parallel edged planks, but just as sawn or hewn out of the tree, the broader the better as offering fewer joints. They broader the better as offering fewer joints are pierced all along the edges with quarter inch holes some 4 to 6 inches apart, and are then fitted edge ways (and endways with an overlap) one to the other without any kind or sort of keel or rib or framing, except for a stick in the bow and another in the stern They carry 2 to 3 tons, are manned by two to four yelling naked rowers, who pull, or rather flop in the water long broom-sticks each with a small bit of heartshaped plank, smaller than a page of foolscap, at the These paddlers are commanded by a steersend of it man armed with a similar paddle They sit on sticks

rudely lashed across the gunwales of the craft to keep it from collapsing flat like a paper boat, and with consummate judgment and much wild yelling they negociate—for the most part safely enough—the moun thin of curling suif that may be trusted to smash into matchwood the finest boat of European build ever launched, even if manned by a powerful crew trade of Madras has from the first been, and still to a large extent is, in the hands of the owners and crews of the surf boats that have just been described The object of those interested in the development of the artificial harbour has been to replace such craft as these by modern, yell-found lighters and perhaps who knows, later to enable vessels to lie alongside of modern wharves But to those fired by such ambitions no more unpromising locality ever presented itself than Madras in the eighteen sixties

In the old days when a voyage per annum was consid ered good enough by the owners of the sailing ships trading between Europe and India, a delay at such a place as Madras of even a month or two months was a matter of comparative unimportance Doubtless, in anticipation of the arrival of a vessel returning to England, the factors on shore had all her cargo ready for shipping to her in these surf boats But she may also have had cargo to put ashore and it will readily be imagined how slow and risky a process it was to get it off in the boats in question. For, as has been explained the vessel's own boats were of no use for any such Then later, when modern steamers came into use and were expected by their owners if they were to pay dividends at all to make at least three or four and if possible six voyages in the year such a service between ship and shore as that afforded by the surf boats began to be viewed as quite unpermissible and impracticable Each day's delay to such a steamer meant many pounds sterling of loss per I ooo tons capacity, and needless to say, this had to be paid for in freights All the time, there were the long established trading firms of Madras who could not very well shift elsewhere leaving capital invested in useless warehouses and losing long established business con These firms—as indeed they still do—must nections have viewed with alarm the gradual extension of the trading influence of the merchants of the more taxoured ports of Bombay and Calcutta especially since the days of rulways-into territories long looked on as Madras reserves for trading purposes

The first attempt made to improve matters was the construction at a cost of Rs II lakes, of some I ooo feet of a screw pile pier, 40 feet wide and 17 feet above low and 12 above high water level This pier was carried out beyond the surf suck, in the hope that except in very heavy weather it might enable modern, framed cargo boats to work between ship and pier It has done 40 years, and will do another 10 years, of good service but, needless to say, it was soon found to be totally in adequate for the requirements of modern steamers, and the surf boat, with all its risks and disabilities, continued to do most of the work between ship and shore Thus we come to the year 1868, when a vessel arriving at Madras found herself anchored—there being no standing moorings—off a shelterless, suff-bound coast, equipped with an iron pier which, because of its projecting out

beyond the suck of the surf, afforded facilities for direct communication with the shore such as had never before been enjoyed until the year of the pier's completion When, however, a vessel attempted to put cargo ashore or to get off exports from the shore, so madequate were the pier facilities for craning cargo in or out of boats that, practically, most of her work had to be carried on through the heavy surf precisely as 100 years before, by the aid of the masulah boats above described Even the few framed, ten ton cargo boats that the advent of the screw pier enabled to come into exist ence had perforce to be drawn up ashore by their owners and put out of action for months at a time lest they should break from their moorings and be cast ashore, to inevitable wreck, in the event of bad weather For once the character of the surf ceased to be of the mildest it was perfectly hopeless to try to beach one of these framed boats Thus in spite of the pier the influence of the masulah boat remained supreme and the effect of this on freights and on insurance charges may readily be imagined time Bombay was spending millions freely and preparing schemes for cheapening transit between ship and shore, and at the same time railways from the Bombay side were extending their tentacles into Madras trading territory

The anxiety of Madras traders, in regard to their very existence first found public expression in a letter by the Chamber of Commerce, dated 31st July 1868, addressed to the Government of Madras, which was minuted on by the then Governor, Lord Napier, on the 23rd August of the same year in this minute he alludes to the project of a harbour as having been often suggested abandoned and revived. The Government of the day accorded its cordial support to the Chamber's recommendation that an artificial harbour should be built and in its order dated the 28th August 1868, appointed a strong Committee which in due course, on the 16th January 1869, presented its report. At this stage we will quote freely from the "Official papers concerning the construction of the Madras harbour " arranged by Mr A T Mackenzie MINSTCE, and printed in 1902 by the Superindendent Government Press Madras, price Rs 4 or 6 shillings Committee, after considering certain alternatives only to dismiss them "discussed the condition of the port and its disabilities which were (1) the open roadstead (2) delay in loading and unloading cargo owing to the use of masulah boats, (3) cost of landing and shipping cargo and extortion of boatmen, (4) damage to goods All these disabilities it would be the object of a breakwater to remove while also furnishing a harbour of refuge" Thus it will be seen that from the first the "harbour of refuge" idea found but a secondary place in the minds of all concerned and that the primary object in view, from the first, has been to better the conditions governing transfer of cargo between ship and shore

The relative importance of these two things, i.e., of providing a harbour of refuge for ships and of providing smooth water for lighters to work cargo between ship and shore, is not always grasped by the public, and sometimes has seemed to have been lost sight of in the discussions, that have taken place during the 40 years

since the harbour scheme was first mooted the average mind the word 'Harbour" connotes "Statio bene fida carinis," a place in which ships may lie safely at moorings in bad weather But no harbour of this class is possible at any reasonable expense on such a coast as that to be found at Madras For it is not the waves but the wind that is likely to tear ships from their moorings and it would not be practicable to erect all round an artificial harbour on a low-lying coast like that at Madras, any sort of adequate wall to keep winds from striking a ship broadside. Indeed, a very ordinary modern vessel may expose a broadside of 10,000 square feet to a wind offering a pressure of 50 lbs per sq ft or a total pressure of 500 000 lbs, or say 250 tons which would require stouter bow and stern moorings than any likely to be available in any port in the world, or likely to be carried in, or that could well be handled by the crew of, any modern trading vessel And even if at the first sign of bad weather all vessels in the limited area of a harbour were let swing head to wind, the chain cable would have to be an impracticably large one to stand the lift and strain due to the necessarily short length of the mooring chain Therefore, except and its consequent want of spring under very exceptional circumstances, of which usually the master of a vessel will be the best judge and must be prepared to justify himself to his owners, it will be wiser for vessels to give up the Harbour of Refuge idea altogether, and whenever the danger "signal is hoisted, to steam out to sea where they will be infinitely safer than if caught in the little rat trap of a harbour, where the area in which ships can swing is only about $\frac{3}{4}$ mile by $\frac{1}{2}$ mile, and that for, perhaps, 8 or 10 vessels However, such conditions of weather as to justify the hoisting of the "great danger" signal need not, ordinarily, be looked for more than once in four or five years, for perhaps 24 hours at a time, and during the remaining time a harbour even if only an artificial one on a low sandy coast, will be found of infinite benefit, if properly equipped in providing shelter for modern lighters, tugs, etc., and in securing them smooth water to work in whether alongside vessels or at piers However, in the case of Madras harbour, as will be seen, it was years before the true principles were grasped and even up to near the present day perhaps half of the cargo dealt with at the Port is obliged to be handled by the archaic masulah or surf boat, for lack of an adequate supply of suitable piers and of an inner harbour for lighters however, is now in process of being remedied

Nine years were to elapse between the date, 31st July 1868 of the Madras Chamber of Commerce representation in favour of a harbour and the actual commencement of work in 1877, and the history of these nine years may thus be summarised briefly. The Committee, already referred to as having been appointed by Government on 28th August 1868 to report on the matter, reported in favour of an isolated breakwater of the Plymouth sort, parallel to the shore, in 7 fathoms of water, 1,200 yards off the shore, 2 000 feet long, with splayed ends, to cost Rs 106 lakhs. The Madras Government accepted the view of the Committee (there had been one dissentient, Col Carpendale, RE), in favour of a detached breakwater,

and sent the scheme to the Government of India with a request that the Secretary of State might be moved to send a thoroughly qualified marine and harbour engineer to report on the matter Accordingly Mr G Robertson, who just then was reporting on other Indian harbours, was asked to report, which he did in 1871, to the effect that, subject to confirmation when more information about sand-travel should have been collected, he was in favour of a detached breakwater of the Plymouth sort—that is, of loose rubble—at a cost of Rs 131 lakhs

At this stage, Mr Robertson's report came to the notice of the Engineer of the Karachi breakwater, Mr W Parks, who thereupon undertook to show that the system of construction there adopted, viz, a wall of artificial blocks on top of a submerged layer of rubble, would be far less expensive than the proposed Plymouth system of a rubble mound reaching above water level But the most important part of Mr Parks' report was his recommendation in favour of a closed harbour in lieu of a detached breakwater Indeed, the plan of the closed harbour which accom panied Mr Parks' later report, dated 4th November 1873, is practically the plan that was adopted, later, and is now in use The result was that Mr Parks, having been deputed to visit Madras, submitted the report just referred to, with an estimate amounting to £565,000 Mr Parks' proposals were approved in due course by the Government of Madras and the Government of India, and were by the latter sent forward to the Secretary of State in 1874 with a recommendation that they should be subjected to the scrutiny of higher professional authority than was obtainable in India Consequently the matter was refer red for report to Mr J F Bateman who supported Mr Parks' proposals, and in due course, in a despatch dated the 11th March 1875 the construction of the harbour on the lines recommended by Mr Parks was sanctioned by the Secretary of State, and work began in 1877

The next four years were occupied in the construction of the harbour by Mr Thorowgood, only interrupted by the issue on 18th February 1879 of a strongly condemnatory report by Sir Andrew Clarke, RE, Member of the Viceroy's Council for Public Works Sir Andrew Clarke "condemned the scheme on political, financial, nautical, commercial and engineering grounds and recommended a design by which the harbour would be detached from the shore, its accommodation increased, its defensive power improved, and egress and ingress In this design the two arms were broken at facilitated 3½ fathoms, leaving an entrance both north and south, the curved or breakwater portion being larger than hitherto designed the outermost point being armed with a fort, and the interior divided by wharves This report was forwarded home and referred by the Secretary of State to Mr Parks in September 1879 But in the meantime the progress of the south and north arms had provided more data and Mr Parks was able to satisfy the Secretary of State that sufficient warrant had not been furnished for stopping the work?' The work therefore went ahead on Mr Parks' design only altered in form at the seaward side of the harbour and at the entrance But during this progress, Col Sankey, R L, and Captain Taylor, RNR, respectively Chief Engineer and Master Attendant of Madras, paid a visit to Colombo, and on their return remarked on the much more massive section of the arms there and the heavier rubble protection. But Mr. Parks on the 4th of August 1881 defended his design by the example of Karachi and declined to consider Madras and Colombo as comparable. We now knew that in this judgment he was mistaken and that Madras is liable to be exposed to sea action of a far more destructive character than any likely to be experienced at Colombo. On November 12th, 1881, a severe cyclone visited Madras and the seaward parts of the works, which had then progressed nearly to the entrance pier heads, were almost destroyed.

Following upon this disaster there came two valuable reports, the first by Mr (now Sir) Guildford Molesworth, and the second by Mr Parks, the latter dated the 9th March 1882 Both reports are of a technical engineering character, somewhat out of place for quotation in such a paper as this But it may be noticed that the chief points brought out were (a) that wave action caused disturbance at a considerably greater depths than any previously recorded in Europe, (b) that the excessively destructive wave action experienced was, on this occasion, unaccompanied by wind of any great force and must be ascribed to some very severe local action somewhere out at sea, of which the winds did not, while the waves did, reach Madras, (c) that the breakwater designed by Mr Parks was too low and too weak, and must be raised and strengthened, and (d) that the alterations consequent on the disaster might cost up to Rs 18 lakhs But the matter of chief interest, from the point of view of more recent experience, brought to notice by Mr Parks, was the evil effect of the position of the harbour The eastern entrance admits swell which entrance renders it necessary that vessels should be moored, as far as possible, stem and stern, so as to face the swell and not to roll while handling cargo. And yet, in high winds, which may not by any means necessarily be in the same direction as the swell, vessels may have to cast off their stern moorings so as to lie head to wind and, if necessary, to swing quite round as the wind veers But this may lead to heavy rolling, because of the wave swell coming side-on thereby making the handling of cargo between ship and boat dangerous or difficult These considerations, as well as the surf which the harbour arm had not by any means put an end to, and the risk of wreck to any sort of cargo boat of a better class than the old-fashioned surf-boat, made it necessary, in Mr Parks' opinion, to consider the question of the alteration of the eastern entrance, to some situation where waves would find it less easy to enter and disturb the surface of the harbour

The question of the design and reconstruction of the harbour was then referred by the Secretary of State, in 1882, to a Committee of experts, consisting of Sir John Hawkshaw, frs, Sir John Coode, and Professor Stokes (later Sir George Stokes, Bart) They in due course submitted a full and valuable report, with plans for the reconstruction of the damaged harbour on a stronger scale Briefly described, their recommendations were to the effect that at the damaged outer ends of the two arms, and on the eastern parts of the arms,

a new wall of heavy concrete blocks should be built on the inner side of, and where practicable amalgamated with, the injured structure that the level above water level should be rused several feet, and that the outer mass of rubble and random blocks should be very considerably added to The Committee did not consider the question of substituting a northern for the eastern entrance but they negatived a southern entrance and as things have turned out, quite rightly, and suggested the narrowing of the eastern entrance from 550 to 450 feet. It was subsequently narrowed to 500 feet Alternative estimates of the cost of these different ways of carrying out their recommendations came to £480,000, £430,000 and £466,000 A local Committee formed at Madras to cons der this report submitted the result of its sittings on 30th April 1883, expressing strongly the opinion that a new entrance would be necessary if the swell inside the harbour during heavy weather was to be mitigated This Com mittee estimated the cost of restoring the harbour and opening a new and closing the old entrance at Rs 513 But the weak point in their recommendations vas that they proposed to meet the cost of the alteration of the entrance by cutting down the home Committee's proposals for raising and s

Accompanied by a note by Sir

these views were again laid before the home Committee who insisted on the retention of their design for the strengthening of the arms while treating the proposed alteration of the entrance—in the necessity for which they did not quite concur—as an additional expenditure, thereby adding f125 000 to their previous estimates They repeated the suggestion that instead of at once making a new entrance, the old one might be narrowed from 500 to 450 feet. They added the very pregnant note that it must not be forgottenduring the next 20 years it was, as a fact, forgotten-'that whether the harbour were completed with the present or with a new entrance, there are now no sufficient facilities within it for loading or unloading vessels and if further expenditure is to be incurred, it is a question whether it would not be better to neur it in providing such facilities at or near the base or shore end of the harbour, rather than in making a new entrance. After giving the fullest consideration to this question, we cannot recommend the construction of the proposed new entrance "

The old question of altering the aspect of the harbour entrance from east to north east was fated to be under discussion for a period of 20 years before a decision was finally arrived at A brief sketch will be offered of this long discussion, but first a few words of explanation seem necessary. The chief thing desired by those interested was that ships should have smooth water to load and unload in ships pitch, head to sea there is nothing like the same dishculty in craning cargo between hatch and lighter as when they roll, side to sea Now, ordinarily, by casual thinkers, it is believed that when a vessel is lying head to aind she will at the same time be lying head to sea, and will consequently only pitch and not roll, and thus will not be inconvenienced in landing her cargo But such is not the case—is indeed very far from being the case—except very exceptionally,

in a close harbour like that at Madras For not only do all waves that are rolling shorewards approach more or less parallel to-say within 15° either way from parallelism with—the shore, quite irrespective of the wind direction, but still more, in the harbour itself, no waves at all can get in except at the eastern entrance, and these more or less retain their original long-shore lie, so that all ships lying head to north or south are bound to roll, to the great inconvenience of cargo-handling This is even worsened at some of the moorings by the deflection of the waves off one or the other of the walls of the harbour, and it follows that when there is any swell outside at all, there will usually be inconvenient rolling going on inside Thence the urgent necessity, so strongly insisted on throughout the years of discussion, and curiously enough so little apprehended by the high engineering and nautical authorities in England to whom it fell to pronounce opinions that carried weight with sanctioning authorities, of keeping out the swell at any cost in reason It will be realised, in the light of the above explanation, that during high winds, vessels must, if possible, be able to slack off their stern moorings and so swing that they may lie head to wind instead of bearing the burst of the wind on their sides The importance of this will be realised when it is pointed out that not only is the head area exposed to the force of the wind only about one-sixth part of the side area, but also that the pointed bow is far better shaped to throw off the pressure than is the flat side of the ship. Few vessels are so well found astern, with holding tackle as to be able to offer their flat side to a really strong wind—especially to strong puffs of wind—and not break their stern lines. When this happens they must necessarily swing head to wind, perhaps for days at a time, and in Madras harbour all berths are so arranged that vessels may do so, without endangering one another As explained when so swung, whether by design or by accident, it is an equal chance that though head to wind they are side to swell, and so must necessarily roll badly, to the great danger and difficulty of cargo working With so much for explanation of the wave or wind and roll or pitch question, we return to the history of the alteration of the harbour entrance

In dealing a second time with the opinion of the Hawkshaw, Coode, and Stokes Committee, the Government of Madras, now advised by Col Shaw Stuart, RE, insisted most strongly on the necessity for a north or north-east entrance, pointing out that in this view they had practically the unanimous support of marine experts acquainted with the working of the harbour. The Secretary of State, however, supported by Mr Parks felt that he had no choice but to accept the decision of such eminent authorities as Sir J. Hawkshaw and Sir J. Coode. In the meantime, the restoration of the harbour from the condition of wreck to which it had been reduced by the cyclone of 1881 had been more or less in abeyance and was only resumed vigorously in 1885.

A fresh opportunity for raising the question of the alteration of the entrance was offered by the coming into force of the Madras Harbour Trust Act of 1886—superseded later by the Madras Port Trust Act II

of 1905-whereby the direct control, property, duties and liabilities of the Port passed from Government to a Board of Trustees At the end of the year 1886 the new Board again raised the question of a north-east entrance, though their Engineer, Mr F N Thorowgood, was then of opinion that things having gone so far it was rather late in the day to make so radical a change The Port Trust's proposal was strongly supported in turn by the Governments of Madras and of India, and the result was the appointment by the Secretary of State of a new Committee, stronger this time in nautical experience, consisting of Admirals Salmon and Nares and Sir John Coode, who reported in 1887 in favour of the adoption of a north-eastern entrance That this Committee had a clear appreciation of the essential points at issue is made evident by the quotation of the following paragraph from their report "It is agreed on all hands that owing to the frequently disturbed state of the water the facilities for landing and embarking passengers, cargo, etc, offered by the harbour, are very much restricted, nor would it be feasible for the same reason, to use, without serious interruption, wharves and jetties along the shore line, or to keep in safety within it such improved lighters, tugs, and other harbour craft as would greatly increase its value as a trading port "

Meanwhile, as years went on, owing to conditions which, as this is not an engineering publication, need not now be described, sand had been banking itself upon the south side of the outside of the new harbour and gradually creeping forward so as to threaten completely to close up the eastern entrance Indeed whereas in 1888 there were 48 feet of water in the entrance there were in 1904 only 32 feet, and were it not for the dredging that now takes place for a month or six weeks every year, the silting up of the eastern entrance would be taking place at the steady rate of one foot This fact coming to the notice of the Salmon, Nares and Coode Committee, they wrote "The present or east entrance we believe to be the easiest and safest for ingress or egress, but not only does it admit the sea in the manner described, but we are of opinion that the time is not far distant when the depth at this entrance will be so far reduced as to become too shallow for the larger class of vessels frequenting the port" This report, when sent to India, was accompanied by a critical note by Mr Parks who thought that the sand difficulty had been exaggerated and would not be of practical importance until 1938 We now know, however, that were it not for the dredging done since 1904, the depth at the entrance would, by now, 1908, have been reduced to 28 feet In other words, in any, even a moderate, swell, the port would have been practically closed to 4,000 ton steamers The Harbour Board and the Government of Madras, however, concurred with Mr Parks' opinion as regards sand-travel, but considered that the north-east en trance, as recommended by the Admirals' Committee, should be adopted and commenced at once Meanwhile, on the 31st July 1888, Mr Thorowgood resigned his post and was provisionally succeeded as Superintendent of the Harbour Works by Mr A L Pogson who, two months later, made an important proposal for making a north-eastern entrance and at

the same time providing shelter for lighters and smaller craft, in the shallow part of the harbour area not available for ships With the support of the Harbour Board and the Governments of Madras and of India, Mr Pogson's proposals in due course reached the Secretary of State, who, however, did not accept them, but directed that the reconstruction should proceed on the old design and that the form of the new entrance should be left for future consideration On Mr Parks' death in 1889 Sir Alexander Rendel appeared on the scene as the London Consulting Engineer to the Harbour Board, and for the first time raised the question of the advisability of constructing quays at which ships might work their cargoes in perfect quiet and security But this proposal was rejected on reference to the Harbour Board who adhered to their former decision to complete the reconstruction on the old lines, with an eastern entrance narrowed by 50 feet, and to come to a decision about a change of entrance later, in the light of experience By the end of the year 1895 the harbour with an eastern entrance was completed. The total cost to date was Rs 1,26,21,212 of which Rs 61 41,985 were spent before 1888, and for the difference between these two sums, Rs 64,79,227, Government made the Harbour Board responsible, for repayment ultimately and for interest at 41 per cent, since reduced to 4 per cent

In the years which elapsed between 1895 and 1904 Sir A Rendel, KCIE, Mr B deWinton and Mr F J Wilson—all Mems Inst C E, pleaded for ship docks boat docks, or quay walls, under various designs But the feeling of the practical mercantile men of whom, for the most part, the Harbour Board is ordinarily composed, was that, however desirable such luxuries might be in the future, the present trade of Madras was not of sufficient magnitude to afford them, and that the matter of immediate urgency was that the shore side of the harbour should be suitably equipped with piers, cranes, sheds, railway sidings, etc , on an adequate scale for the traffic offering itself Eventually in 1903, proposals were submitted for the construction of a north-eastern entrance and the closure of the eastern one at a cost of Rs 45 lakhs, and this, in due course, was sanctioned by the Secretary of State and put in hand, under Mr F J Wilson as Chief Engineer under the Harbour Trust Board whose Chairman, until now, had always been the protem "Collector"—Prefect, Chairman of County Council—of the local Madras administrative area

Early in 1904, recognising the disadvantages of constant changes in the personnel of the Chairmanship, Government appointed as whole-time Chairman, the compiler of this article, lately their Secretary in the Railway Department, who had just retired from the service. Two years later, on Mr. F. J. Wilson's appointment to be Secretary in the Madras P. W. Department, the Engineership and the Chairmanship were combined in the writer's charge. The Board now entered actively on a policy of spending all its Revenue balances on providing the Port with suitable appliances, so long lacking, for the proper handling, storing and delivery of goods between ship, and consignee, and in pursuance of this policy have laid down for themselves a programme of expenditure on such equipment which,

when completed will have cost Rs 25 lakhs Amongst the works arranged for in pursuance of this policy, as well as in connection with capital loan expenditure on the alteration of the harbour entiance, are the following, which have, in their effects, revolutionized the methods so long in use at the Port Most of them, from (a) to (k), are already, 1908, completed and in use, the rest have been arranged for or are in hand

- (a) Radical re arrangement of the lines and sidings in the Harbour Trust's yard
- (b) Improvements for coal handling

(c) Improved cranes

- (d) An export pier equipped with cranes
- (c) A pier for dutiable imports equipped with 16 hydraulic cranes
- (f) A shed of an area of 1³/₄ acres for dutiable imports
- (g) A 7-acre basin for lighters and small craft drawing under 12 feet of water
- (h) A slipway, for hauling up vessels up to 500 tons burden
- (1) Jetties, cranes, sidings and other facilities for the timber trade
- (7) Space, sidings, etc., for minerals and rough cargo near the boat basin and south arm
- (k) Improved arrangements, pier, waiting rooms, etc., for use of passengers
- (l) Pier and arrangements for improving the landings of iron
- (m) Extensive arrangements, including hydraulic cranes, etc., for the landing and despatch or stacking of coal

(n) A pier for non dutiable imports

(o) Sheds for non-dutiables, whether imports or exports

Undoubtedly the provision of these appliances, so far as they have gone, has been accompanied by an increase in the volume of trade done at the Port, and there is every reason to hope that by tending to lower lighterage charges for landing and shipping, as well as by expediting the despatch of steamers and thereby eventually lowering freights, the new works

will be of immense benefit to local trade

Meanwhile the alteration of the harbour entrance is in progress, nearly half of the estimated cost of it and of its plant and connected works having been spent already by the middle of 1908, and there is every reason for believing that by the middle of the year 1911 there will have been secured smooth water inside the harbour, so that no matter how ships may be obliged to swing to the high winds in certain days of the year, there may be no rolling such as now sometimes so seriously interferes with the handling of cargo Of all the works above referred to, perhaps, the boat basin is the most important as judged by its effects. For there has now grown up in the Port, because of the protection afforded by this basin, a large tonnage—in the next few months there ought to be fully 1 500 tons—of large modern lighters into which the greater part of the vessels frequenting the Port will be able to put out the balance of their cargo after a day or two of working must be borne in mind that it is only for very few ships that Madras is a terminal Port Most vessels

have only a few hundred tons to take in or put out, en route for other and larger ports where they can be sure of return cargoes. But it would have been of little use to have provided the boat basin, and thence, indirectly, the lighter fleet, if measures had not at the same time been taken to unload the lighters quickly The new dutiable import pier with its 16 hydraulic cranes does all this and it is now quite exceptionalexcept when a vessel sees fit to work cargo overside at night-to find lighters containing cargo left affoat during the night, as used sometimes to happen, even in bad weather Even when cargo is left affoat in the new lighters, it can suffer but little or no damage, being well battened down, whereas only a few months ago scores of country boats might be seen moored full of valuable cargo, but deserted of all crew, and exposed all night to the attacks of thieves, or likely to sink for want of baling, or to come ashore for want of an anchor watch And just as the dutiable class of cargo has already been provided for, as described, by means of the new pier, cranes, and the fine new shed, so non-dutiable cargo will be provided for in the next few months, as well as the coal, iron and other rougher classes of imports

That the trade of Madras is not a stagnating trade, but will respond to proper provision of facilities, may be judged of from the fact that, in this the 8th year of the current century, the value of the whole trade handled at the Port, whether exports or imports, coasting or foreign, has improved by just 50 per cent over and above the average figure at which it stood more or less stagnant in the last 13 years of the 19th century The average in question was just Rs 12 crores or £ 8,000,000, and it did not appear to show any tendency towards upward growth, judging from a diagram made from the figures published in the Government Customs Department But in the year 1907-8 the value of the trade is given at Rs 18 crores, or £12,000,000 The value of the at Rs 18 crores, or £12,000,000 total of exports remains, persistently, throughout the years, at from one third to one-fourth lower than that of the total of imports, but this applies only to what actually passes through the Port of Madras, and doubtless if facts were available and if internal and external trade by railways and via other ports were taken into consideration, there would not be apparent so great a

discrepancy

The final position of the Madras Port Trust Board is as follows—They are in possession of property valued—after all depreciation—at the end of the year 1907-8 at Rs 1,97,40,108, say nearly two crores of rupees or £1,300,000 They are in debt for part of this, to the extent of Rs 53,40,776 or say £350,000 This debt is in process of being paid off out of ordinary income, part of it in 40 years and part of it in 60 years Equated payments are made of principal and interest at four per cent. The burden of the debt is light and in its comparatively small way the Port is pretty well off with a gross income of 9 to 11 lakhs of rupees—say £70,000 per annum—from which working expenses take about 60 per cent. The balance to the good is pooled for the provision of works which ordinarily would be provided for by borrowings indeed, most of the Rs 25,00,000 v orth of internal improvement works just now in hand are to be provided for out of revenue.

surpluses Thus it will be seen that the Port's financial position is a perfectly sound one. The entire cost of the facilities of all kinds afforded to the public at the Port of Madras averages just Rs. 1-8-0 or 2 shillings per ton of cargo using it. But if coal be omitted from the calculation—for it pays very small dues and as yet receives few facilities—the cost, not of shipping but of actual cargo handled in the port, works out at Rs. 2-1-7 or to, say, 3 shillings per ton

There are in the harbour two revolving Titan cranes that at a radius of 60 feet can each lift 33 tons and one of them can lift 25 tons at a radius of 80 feet. There is a steam gantry crane to lift 15 tons at a radius of 33 feet. There is a steam 12-ton crane. There are 2 two-ton and 14 one-ton hydraulic cranes, a couple of 5-ton and some smaller steam cranes and a number of hand cranes. All these are capable of lifting weights out of lighters, and some of the largest of them are in daily and hourly use for this purpose up to 33 tons. On shore, where trollies loaded on the pier are unloaded preparatory to despatch on railway trucks, there are cranes corresponding to the above by which roadlorries and railway trucks can be loaded in due course.

Madras is the principal Port of an area of country con taining some 30 odd millions of inhabitants The town itself has some half-million inhabitants. It is served by two great systems of railway, the Madras Southern Mahratta Railway and the South Indian Railway, with lengths of 3,000 and 1,500 miles respectively. It would be a very much more important Port than it is but for the fact that, here in its southern end, the Indian peninsula has so narrowed, and the sea is so near, that there are actually, in the Presidency, 148 ports, of which 45 are open to general trade, coasting and foreign and 103 to coasting trade only It follows that, because of these facilities, Madras Port can never hope to obtain so large a share of the trade of the millions at the back of her as Calcutta has of her 100 millions, Bombay of hers or Karachi of hers

Omitting coal, of which 278,000 tons were imported, chiefly from Bengal, the imports at Madras in the year

1907-8 amounted in weight to 326,000 tons and the exports to 132,000 tons Kerosine oil headed the imports at 52,000 tons, mostly in bulk, pumped ashore, Railway materials were 45,000 tons, then came metals, chiefly bar iron, 37,000 food grains, 28,000, timber, 27,000, piece goods and twist, 20,000 The remaining 117 tons of articles of imports were individually of compara tively small weight Amongst exports, seeds and ground nuts were 24,000 tons, hides horns and skins, 20,000 vegetables and provisions, 21 000, mostly onions for Burma, cotton, 18,000, oil cake, 10,000 The remaining exports, 39,000 are individually of comparatively small tonnage These figures give a general idea of the character of the Madras trade of import and export

An attempt has been made to show how from small beginnings—devoid indeed of all natural advantages— Madras has gradually provided itself with shelter for vessels up to say 5,000 or 6,000 tons burden, and with modern appliances for the handling storing and delivery of cargo Another four years will show a great difference for the better And even though Madras can never hope to compete with places having the natural advantages of Calcutta, Bombay, Rangoon or Karachi, she may reasonably hope to continue to serve a useful purpose in the chain of communication between her 30-million clientèle and their correspondents in Europe There are some anomalies yet to be swept away, left since the time when a sailing ship or two per month sufficed for all the trade there was, and local traders did much of their business down on the sandy beach The Madras merchant, especially the native merchant, is a conservative person who does not like being hurried, but all these reforms will come in time. The benefits which the Port Trust is aiming at conferring on merchant are cheap freights Europe, due to quick and safe handling of steamer cargoes and cheap lighterage charges, which may be expected to result from better shore arrangements for the handling and movement of good



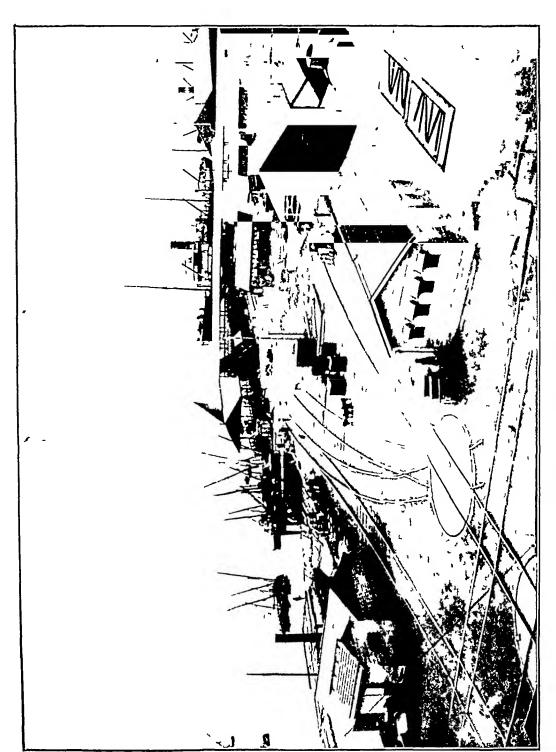
The Port of Karachi.

This port is the westernmost of all Indian harbours, and is, therefore, the nearest point to Europe of all the British possessions in India The course from Karachi to Aden, in the south-west monsoon during three months of the year, is 735 miles shorter than from Bombay, and is at all times 205 miles shorter From Bussorah this port has an advantage of 435 miles over Bombay It lies in lat 24 47'21" N and long 66 58' 15" E, and is the natural port of Sind, the Punjab, the Frontier Provinces, the North-West Provinces, and Central Asia Sind was joined to the Bombay Presidency at a time when practically the only communication was by coasting vessels, for then Karachi harbour was not easy of approach, and in fact, within the memory of living men, ships have been warned from attempting to enter the Port and have been signalled "to go to Bombay" As far back as 1842 Sir Charles Napier, the conqueror of Sind, whose famous message "Peccavi has become historical, urged that the Indus valley was the most important route for military and commerc al communication with the Punjab and the North-West Provinces, and pointed to Karachi then a small fishing town, as the port to which traffic would intallibly tend and Lord Dalhousie, Sir Henry Pottinger, Sir John Lawrence, Sir Justin Shiel, General Jacob, and Sir Bartle Frere, had all recorded similar opinions before the year 1863 Karachi hes on the northern border of the Arabian Sea, 51 miles west of the principal mouth of the Indus, and at the extreme northern end of the Delta, not far from the southern base of the Pab Mountains, and close to the border of Baluchistan By rail it is 993 miles from its Presidency town, Bombay, and 483 knots by sea, and is the capital of Sind The bay, at the northern end of which the town is situated, is formed by the projecting point called Manora, which lies at the eastern end of a reef to miles long, which forms a barrier against the Arabian Sea The mouth of the bay measures 31 miles between Manora and a point to the east called Clifton, and is blocked for the most part by a group of islets called the Oyster Rocks, of which Kiamari, which is now part of the mainland, was formerly the largest The bay is 5 miles long from south to north and 5 miles broad but only the eastern and a small part of the northern shore has been utilised as a port, the remainder being left in its primitive shallow state. The Layari, a small stream, runs in at the northern end, but the water in it only comes to the surface during a few days in the year. On the eastern shore of the bay lies a large mangrove swamp in which at one time there was a deep pool and which used to have an inlet and outlet opposite the Oyster Rocks and through the Chinna creek on the west the Baba creek runs to very near the ree's above mentioned and probably had an opening to the sea at one time. The low

hills in the neighbourhood of Karachi are from 150 to 200 feet high of a coarse grained arenaceous dirty yellow rock, abounding in fossils, and mostly capped with conglomerate more or less disintegrated and containing water worn pebbles Manora Point consists of this conglomerate resting on clay which has been undermined by the sea, whereby great masses of rock have been brought down and scattered for about 700 feet from the shore and in from 10 to 25 feet of water, where they crop up irregularly Further out the sea bottom is of sand 8 to 10 feet thick overlying the clay and interspersed with boulders. As the bottom shelves rapidly, it is not sensibly affected by the drift of the Indus, which, under prevailing winds, is towards Cutch The sand, uncovered at low water, is blown into the harbour and indeed, over the whole city This together with the sea air rapidly wears away any wrought iron work so much so that chains hung between wooden posts will fall to pieces in a comparatively short time, while the posts are practically uninjured cast-iron is not similarly affected climate of Karachi, although unpleasant, is very healthy it lies low, and the marsh land in its vicinity renders the atmosphere moist and warm endurable during eight months of the year, while the sea breezes blow constantly When the hot land winds prevail, life becomes a burden, not only to the European, but even to the native inhabitants fortunately this happens but seldom The only insanitary part of the town is the old town proper, and the Sadr bazaar portion or "Camp," as this together with the civil lines is called

Here the plague has made some thousand victims since the first outbreak early in December 1896, and over eight lakhs were spent by the municipality, under the orders of the Government, in combating the scourge in the next four years, of which three lakhs were refunded. Vaccination has been compulsory for the last 20 years. The hot weather is reckoned to last three months, April, May and June. October and November are also close and sultry sometimes. The mean annual temperature is calculated to be 65 degrees in January, 85 degrees in May, and 75 degrees in November. The annual rainfall is slight and fluctuating, averaging 5 inches, which, as often as not, falls in a few hours.

Mention is made in the chronicles before 1725 of a place called Kharak, having a considerable amount of trade, which lay on the further side of the Hab river to the westwards and near its mouth. This little port got silted up, and a move was made about 1729 to a spot at the head of the present harbour and then called Kalachi. Kun, and under Jam Daria Khan Jokia trade began to be attracted to the port which became known to Europeans amongst many other ways of spelling it as "Kurachee" this has now crystallised



PASSENCER I VYDING STACF KANAVRI KARACHI

into "Karachi" The harbour of Sharbunder also becoming blocked, and Tatta, the old capital of Sind having decayed owing to the Indus silting up, much of the trade was diverted to the newer harbour. Before the Indus was tapped by the Scind Rulway at Kotriall the river traffic used to go down to keti ind Sagandar whence it used to be taken mostly to Bombay, while a little dribbled westwards to Karachi.

The Khan of Kelat under the Kalhora Princes having obtained a grant of the town put his own garrison into it. Between 1792 and 1795 three Biluchi armies invested the town, and on the third occasion the leader, a Talpur chief of Hyderibad, gained possession of it and built a fort at Manora. The rule of these chiefs was so favourable to the town that trade They subjected all imports to a 21 per flourished cent duty and the customs revenue imounted to Rs 99 000 in 1809 rising to Rs 1,74,000 in 1837, when the whole trade of the port was valued at about In 1838 the town and suburbs held 14 000 inhabitants (of whom half were Hindus) ruled despotically by a Nawab, under the Mirs who held both civil and military powers Nearly all the goods were consumed locally, only 12 lakhs going across the frontier. The imports were mostly broadcloth, chintz etc. copper, cotton, dates, ivory silk (raw) from Bengal and China, silk (manufactured) from England, slaves spices and sugar. The principal exports were -ghi grun (wheat), indigo madder opium raisins, salted fish and Most of the slaves were negroes or Abysimians brought from Muscat Opium (500 camel-loads) came from Marwar, and was exported to Daman the Portuguese town In 1843 the trade had fillen to about 12 lakhs owing to the opium trade having steadily declined for six years it having amounted to 16 lakhs in 1837 In 1848-9 the trade had risen again to 44 lakhs, which in 1852-3 was nearly doubled, reaching 81 lakhs The exports had been gradually creeping up, and in 1857-8 stood at 107 lakhs as against 108 lakhs worth of imports Owing to the high demand for Indian cotton during the Civil War in America the exports rose to 400 lakhs in 1863-4, the imports being 200 lakhs only When peace was restored, the trade fell from 600 lakhs to 400 lakhs in 1867-8 and to 350 lakhs in 1873-4 rising again to 700 lakhs in 1882-3 and to 1,100 lakhs in 1892-3

The seaborne trade of Sind passes almost entirely through Karachi, according to the last returns the figures are —

	1905 06 000 Rs	1906-07 000 R	1907 08 000 Rs
Imports Private	8,71,20	9 41,87	10,52,17
Treasure do	36,42	57,41	87,83
Exports Foreign	38,22	47,67	47,70
Indian	11,07,22	13,32,56	17 57 24
Total	11 45,44	15 80,23	18,04 94
Treasure, Private	5,83,96	4 80,90	4,30,34

The following tables show violent fluctuations in the exports, especially in wheat, though the general tendency is upward—the imports are also creeping up, but more steadily

PRINCIPAL IMPORTS TO KAPACHI (Loreign & Coustuise) in Lukhs of Rupees, ending 31st December 1905

- Charmy 31 \ 12000 12005									
Year	Conl & Cokr	Metal	Oil (Kero sine)	Picer Goods and Yarns	Surar	Timber			
1831	6	27	0	, 152	31	11			
188~	3	20	1	142	~3	3			
1883	2	20	3	135	16	1			
1881	3	29	1	157	15	7			
188,	3	3"	2	18;	35	5			
1886	6	35	4	510	31	6			
1P27	7	31	4	26 5	10	10			
1898	7	35	4 .	^*7	3~	6			
1887	٥	29	11	410	33	7			
1890	7	32	12	293	37				
1891	o	35	15	307	٠,٥	7			
1803	11	32	14	3~0	-9	٥			
1893	7	10	13	312	5t	8			
1801	7	31	17	45	53	2			
1895	8	41	3	374	67	10			
1895	8	40	10	393	69	g			
1897	5	27	15	334	79	7			
1808	1	3	21	315	87	4			
1899	12	21	1	332	75	8			
1900	4	-1	10	344	99	ь			
1001	7	40	16	498	105	9			
1902	8	39	18	451	135	7			
1903	12	48	26	451	111	8			
1604	27	45	32	596	146	4			
1905	38	48	19	679	135	10			

Foreign only -Year ended March 31

Year	Coal & Coke	Metal	Oil (Kero sine)	Piece Goods and Varns	Sugar	Timber '
1006	ı	50	16	430	176	
1907	2	48	32	477	191	-
1908	4	71	44	509	195	_

PRINCIPAL ENPORTS FROM KARACHI (Foreign & Coasterse) in Lakls of Rupees

			-		_		
Veir	Pones	Cotton	i , (stan Wheat) 	Hider S	ord (G⊓ gelly)	(R ipe)	\\ 001
163C 184 187 1831	-	1 27	1 100	14 17 11 14	8 0 27 7		1 00 1 05 1 1 1 1
1875 1874 188 1879 1879	1 11	- ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	, 2-0	18 12 20 17	17 17 11 10	44	61 60 50 91
1£ 15.2 16.2 16.2	1 4	(- 43 61 5 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , 1	3 	4 1,2 111 47	(' (' 110 110
1500 10 7 15 8 15 8 15 8	14 1 15 1 17 2 79	1-3 143 115 c	101 212 204 121 101	* f	tt 17 59 49	111	110
1601 160 160 160	1 21 18 12 17	110	7 7 40	# 4 4 F	47 44 -5	107 107 107	f 2 101 4

FORFIGN ONLY - Year eracd March 31

Ven	Is al	Pages	Co ton	Gran Wheat	Hictory S Skim	i(in tel's)	Papel	11 001
	, 							
1000	6;		1 F	ξF-			110	-
1007	Ε,	_	23	707	1		~0	~
100°° 1007 1000	ഗ		374	r13	i —		~~	_

The vessels in the Foreign trade using the port were as follows (coasters excluded) —

	11/0	1105-60		1996 07		· o"
	10	Ton	١0	lons	\ 0	Tons 000
Interes	1					
Steamers Sailers	~~~ 237	3º2	206 176	399	511 161	401 10
Cleared	[
Steamer Sailers	288	608 16	313 170	774	388 211	860 15
t	1	1		<u>'</u>		ŀ

The steady rise in coal imports is due to the increase of Bengal coal brought in "coasters" from Calcutta, which is ousting the wood fuel and foreign coal formerly burnt on raily ays and in factories

The inhabitants of the city increased as follows — 1872, 56,753, 1881, 73,560, 1891, 105,199, 1901, 116,663 including 8,019 in the cantonments. Of the total

60 003 very Muhammadans 48 169 Hindus 6 158 Christians and 1 823 Parsis

Karichi is the head-quarters of the following Missions the Church of England, the Roman Catholic, the Church of England Zenana and the Methodist Episcopal

One of the sights of Karachi is the Mugger Talao some with our and one of the advantages of the place are the cows which are so noted as good milkers that many of them are shipped to Bombay. They are bred in the hill tracts within a radius of 30 or 40 miles. The Muhama tribe of Muhammadans are great fishermen and live mostly in hamlets near Karachi. At Kiamari there used to be a village of them they catch rays sharks, and skates, and some pearl oysters of inferior quality have been found in decreasing numbers. Good building stone is found among the irenaccous limestones of the Gay group near the city, and has largely been used in the building therein. A few miles out at Maurypur salt is manufactured from salt water.

Rarach is the port of call for the Austrian Hoyd British India Bombay Steam Navigation City Clare Hall Hamider Hansa Jiyanji Strick and Wilson liners. The North Western Raily ay links the city with the frontier the Punjab and the United Provinces—the Jodhpore Bil aner. Raily ay with the Thar and Parkar district—value to hie the line opened in 1004 from Hyderabal to Bandi. 54 miles—vall form part of the Bombay Karachi connection through the Runn of Cutch—value until that has been completed has to be made by a very roundabout route—Three trade routes keep Karachi in direct communication with Afghanist in and Central Asia—in the interior of Sind-Lus Bela and Kelat—and moreover—inv communication by rul with the Persian Gulf and countries beyond are almost certain to pass through Karachi.

Sind is under a Commissioner a hose residence is in Government House. Karachi originally built by Sir Charles Napier when Governor of the Province, and now fitted with electric light and fans. The city forms a separate charge under a Deputy Collector, and is the Head quarters of the District.

Is irachi contains a District Jail and various educational and medical establishments . Among the educational institutions are the Sind College and the Day ir im Jethmal Sind Arts College founded in 1887 to which is attached a hostel accommodating some of the 120 scholars. Students are prepared for the first II B. There are 68 schools with a duly attendance of 8 100 in fact, the progress of education in the city is very satisfactory. Of these schools the numbers and attendance are —Boys, 48 with 6.239 girls 20 with 1.861. The Narryan Jagannath High School is under Government management and the students are prepared for the matriculation and final school examination it receives Rs 10,000 from Provincial Revenues There is ilso a Muhammadan High School, an engineering class, and a truning class for mistresses St Patricl's Roman Catholic School is capable of housing 40 boarders and 200 day scholars the European and Eurusian School called the Karachi Grammar School, founded in 1854 under the auspices of Sir Bartle Frere the Anglican Mission Schools, and the Parsi Virbani School

There are three hospitals and four dispensaries with over 70,000 patients, the Civil Hospital has between one and two thousand in-patients, the Dufferin Hospital for females, built by Mr Edulji Dinshaw in 1901, treats over 10,000 patients of whom over 200 are internes

There are three hospitals in cantonments, a military one (formerly called the Sick Hospital) established in 1869, a cantonment hospital in the Preedy quarter opened in 1901, and one near the barracks for camp followers and servants

Amongst the many other public and private buildings, there are four Railway Stations, Cantonment, McLeod, Mansfield Import Yard, and Kiamari a railway workshop, Messrs Herman & Co's Ironworks, and three cotton presses the Sind Press Co's McI eod Road Press, out-turn 350 pressed bales a day, the Jyabji Presses, built in 1865 at a cost of Rs 225,000, out-turn 250 bales, the Albert Press, leased to the same company, with an out-turn of 390 bales, and the Karachi Steam Roller Flour Mills

Other buildings are the Anglican Church of Holy Trinity which has a hideous tower and was originally meant to be a land-mark the Presbyterian Church of St Andrew, and Christ Church, the Napier Barracks, the Sind Club, the Empress Market, the Post Office, and the Frere Hall Municipal building which was opened, incomplete, in October 1865, after Rs 1,75,000 had been spent on it A statue of the Queen-Empress Victoria was erected in front of the building by public subscription and was unveiled by the Prince of Wales in 1906 Besides the Napier obelisk on the Mole already mentioned, there is a clock tower memorial to Sir William Merewether at the junction of the two principal thoroughfares, the Bunder between the Custom Houseand Cantonments, and the McLeod Road on which most of the European business offices are situated residential bungalows are well isolated and therefore catch the sea-breezes, but the dust is difficult to keep down and the air is always more or less gritty houses are dotted along the road to the cantonments on the East and merge into the civil lines adjoining them

The military portion of the city consists of the arsenal, and of three lines, depôt, artillery, and European infantry the depot lines the oldest military portion of Karachi were originally built for reliefs passing through The normal strength of the garrison is 1,300 and there are 800 volunteers

There is a public garden half a mile from the cantonments, covering 40 acres and with a very good zoological collection. An extensive dak bungalow is also to be found, and an Afghan strai, about 3 acres in extent, rebuilt by the municipality in 1873 at a cost of Rs 20,000 for the accommodation of Kandahar carayans.

At Clifton, at the extreme Eastern horn of the bay, several bungalows have been built on the edge of the cliffs, and the clean sand at foot of these forms excellent bathing. The place is much favoured, especially by the well-to-do natives, as the sea-breezes come straight off the water and are laden with a minimum amount of sand

Manora Head, the western horn of the bay is provided with a fixed light 148 feet above mean sea-level, with a range of 20 miles in clear weather, and is the first sign

of land after passing Cape Monze or Ras Muar, the land-mark of vessels making Port Karachi from the west A fort was first erected here at the end of the 18th century this has been replaced by a modern system of fortification. Here are also to be found the port and pilot establishments, the harbour improvements office, and one belonging to the Indo-European Telegraph Department. An English Church has been built for the benefit of the residents and of the sailors frequenting the harbour likewise a European school and a library with billiard room attached. Manora is now a cantonment and a military sanitarium in place of Ghizni beyond Clifton on the other side of the harbour.

The Government seems unable to make up its mind whether or not to make the port a regular trooping one. There used to be a Rest Camp here, but when the tents became worn out, the details, etc, were shifted back to Deolali. Since the visit of the Prince of Wales in the battleship Renown, troops have again been sent this way, but they are entrained direct from the transport, and the rest camp has not yet been re-established.

From Kiamari, which will be further described later on the Napier Mole stretches for three miles northwards along the harbour, and on it is a road, the East India Tramway, and the North-Western Railway The mole, began by Sir Charles Napier, was completed in 1854 under the commissionership of Sir Bartle Frere The tramway reaches to the Public Gardens, a distance of 6 m 65 ch. It was at one time worked by steam, which had to be abandoned, after many vicissitudes it is at last beginning to pay its way and more

There are four English and four Native periodicals published in Karachi the Karachi Chronick, the Phæma, the Sind Gazette and the Sind Times The native ones are in Gujerati, Persian and Sindi

The municipality was established in 1852, and from 1891 to 1901 had an income of 12 lakhs. This income was made up of Octroi, rates and taxes under special acts, properties and powers apart from taxation and grants and contributions. The expenditure in 1906 was mostly on General Administration Rs 1,05,000 Public Safety, Rs 30,000, Public Health and Convenience Rs 599,000 and Public Instruction, Rs 60,000. The one-tenth draw back allowed on the through goods Octroi, amounted to Rs 1,60,000.

Waterworks—Karachi may be divided into two portions, viz—the Native quarter, only a few feet above high water, and the European quarter including cantonments, more inland and higher. The city is surrounded on the south and west by mud flats, 15 in below high water, raised by the deposit of salt mud, on which only mangrove and soda plants grow. On the south there are sandy dunes on which goats-foot creepers bind the sand. The south-west monsoon never extends beyond Lakhput Bunder on the Coast of Cutch, and the north-west monsoon does not quite reach Karachi. The rainfall is generally very scanty indeed, in other years none falls at all, while 26 in feli in 1851, 28 45 in in 1869, and 25 5 in in 1878, and again in 1908 there was a heavy fall which badly breached the railways.

The Pab Hills near Karachi are the continuation of the Khirthar chain on the western boundary of Sind, which extends in a southerly direction for 90 miles to Cape Monze. In their rayines the Hab a permanent river takes rise. The Kohistan tract of hills in the karachi collectorate gives rise to the Lyari and Mahr rivers, both torrential, which are not tributaries of the Indus.

The I vari rises a few miles north of Karachi and falls into the harbour at its upper end. The Mahr rises between Karachi and Schwan and after a south-westernly course of 60 miles, falls into Karachi Bay by a creek a few miles from the town.

In the Malir even when the bed is dry, water is found a few feet below the surface and at 10 to 30 feet it is plentiful. The geological formation over the line of the aqueduct which now brings the Malir water to the

distributed by carts, and as soon as the railway was opened to Kotri it was brought thence by rail for making ice

Sir Charles Napier took some steps to remedy this state of things and since his time schemes have been considered of Capt. Baker, R. L., in 1845, of Capt. De Lisle, R. F. in 1854, of John Brunton, in 1860. of Nev nham, in 1864, and of Major-General Merriman. R. L., in 1868. These were all practicable, and, with the exception of Nev nham's boat can'd from the Indus, suitable for the municipality to undertake. Government however, persistently refused to contribute to the cost and exentually Mr. James Strachau, as engineer to the municipality, submitted a scheme in 1873, which has been carried out. General Merriman had proved that the Malir could be depended on for 1,200 gallons per minute in the driest season, so an estimate was prepared for



HARBOUR ENTRY OF, KARACHI

city is identical with the Gaj or Miocene group, intermingled with Munchars or Phocene conglomerates extend to about 4 miles from Karachi, where an elevated ridge crops up and divides the basins of the Lyari and Matis For some years after the British took possession in 1839, the inhabitants resided in what is nov called the old town quarter-miserable and dirty in the extreme, with few roads and no means of locomo-Water used to be got from shallow wells in the I of the Lyari these used to run sweet for some 20 ys and then had to be abandoned for new ones rtle Frere said of the best of it, "though the permanent residents get used to it, and it does not disagree with them, it has, on all newcomers, the effect of a weak solution of Epsom or Cheltenham salts." So used to it were the old inhabitants that on getting fresh water they considered it insipid. The water was

giving 25 gallons a head to 80 000 inhabitants at a cost of Rs 12 00 000. Financial difficulties caused delays, and in 1870 this estimate was cut down to Rs 8,50,000, giving 8 gallons a head. Sir Richard Temple, as Governor of Bombay, laid the foundation stone of the distributing reservoir on February 21, 1880. Water is obtained from two wells on the right bank of the Malir, 7 miles from Larachi they are 40 ft inside diameter, 36 ft deep with a 3 ft steining. The first 6,880 ft of water conduit is of 24 in cast iron, turned and bored pipes, then there is a masonry conduit 16 m 20 chs. long ending in a distributing reservoir at Karachi. The Thudda river, where the pipes end, is crossed by an inverted syphon 500 ft long, composed of two 24 in pipes, while under some nullahs there are masonry conduits. It was estimated

that the surplus water would be sufficient to irrigate The distributing reservoir is on the about 146 acres side of a hill about one mile east of the cantonments, it is 200 ft long by 150 ft broad, and the water surface is 10 ft, q in above the floor level. The tank is covered in by masonly arches, with 12 in of concrete above the extrados and 2 ft of earth over that The water is delivered 6 in above the floor, 62 35 ft above mean sea level, and 55 ft above the average ground floor level of houses in the native town. The main delivery pipe from the reservoir is 150 ft long and 24 in diameter, then a 21 in main runs from it straight through the Sudr Bazar to the native town, and another 12 in through the cantonments, civil lines, railway quarters and old town to Kiamari The 21 in main was not laid at first, but on June 11, 1883, the municipality sanctioned the raising of a Rs 2,80,000 loan to complete Public street services for filling pukkals the scheme on bullock back, and other vessels are provided at frequent and convenient spots about the town and camp, besides 28 hand services for filling guirahs Special supplies are delivered to the railway workshops, the arsenal, the jail, to troops, both European and Native, and to various mills and factories, as well as for the hydraulic machinery at the wharves cost has been Rs 11,50,000 for a maximum supply of 2,500,000 gallons, at a cost of Rs 9 per day for 20 gallons per capita The reservoir cost Rs 67 000 and contains 200,000 gallons, or Rs 33-8 per 1,000 gallons, the water is charged at the rate of Re I per month for I in connections Rs 2-8 for I in, and Rs 5 for I in The works were commenced on February 18, 1880, and were opened on April 4, 1883 The extension was commenced in July and completed in October 1884 In 1906, the capital outlay was Rs 9,069, the establishment, repairs and removal fund Rs 43,643

Sewerage —Up to 1875 the sewerage was not regulated in any way, and sullage was collected in kutcha or unlined cesspools or thrown on the surface. The cesspools were holes in the ground 10 or 12 ft deep they were never cleaned, for the contents escaped readily enough into the gravelly soil, and the pipes connecting them with the houses were never trapped Since 1875 cesspools have all been lined and ventilated they are cleaned periodically and all connecting

pipes are now trapped

After the introduction of water-supply, the necessity of sewering especially in the case of the mative town, became a matter of increasing importance 1803, the consumption of water was 13 million gallons a day, about 5,000 gallons of sullage and waste water had to be removed daily, but the want of funds again proved the obstacle The Municipal engineer, Mr James Strachan, submitted several schemes between 1886 and 1890 and eventually a loan of six lakhs was sanctioned for sewering the old town quarter As already stated rain falls sometimes at the rate of an inch an hour and as the area diained by the storm water channels measured 3 000 acres, it was decided to exclude this water from the sewers Sewerage could not be taken to the sea, as it would have been necessarily discharged to wind-ward of the town. It was, therefore, decided to utilise it on the land. The area to be dealt with measured 175 acres, the population being 30,000, and

it was only a few feet above high water mark it was reckoned that 15 gallons per capita would have to be dealt with, or 450,000 gallons daily The Shone system of hydro-pneumatic ejectors was adopted The city was divided into five blocks, each of which was provided with two ejectors of a combined capacity of 400 gallons, or 200,000 gallons in all, discharged once a minute by compressed air into pipes leading to the sewerage farm sixth ejector was fixed for the waste water from the bathing ghats of the Hindus The sewerage was raised 59 70 ft and only 60 acres were cultivated at first, the area being extended as the population increased up to the present 140 acres. The first cost of the scheme was Rs 717,075 The crops had to be sheltered from the sea-breeze which has a most damaging effect on all plant life The crops tried have all done well except common barley, which tillered too much, the stalks being too weak to support their own weight they were, bajrı, chubber, guinea grass, Indian corn, İtalian rye-grass, juar, lucerne, millet, sugarcane, and wheat spelt The capital outlay on drainage in 1905 was Rs 1 33,000, six lakhs having been spent on extensions establishment repairs etc, came to Rs while conservancy cost Rs 1,67,000 Seven more ejectors have been installed of 250 gallons capacity, and an average of 1,100,000 gallons of sewerage are daily raised and spread over the land, without causing any nuisance whatever

Karachi Harbour —As already stated Sir Charles Napier was the first to appreciate the possibilities of this port, and as a step towards improving it he designed and commenced the mole across the tidal marsh between Karachi and Kiamari the obelisk opposite the native Jetty, near the northern end of the bay, marks the place where his work ended In 1855, the late Sir William (then M1) P Andrew obtained the concession for the Scinde Railway, by which to tap the boat traffic down the Indus at Kotri and so bring it by rail to Karachi This he described as "the neck of the funnel" and expressed the opinion that all present and future traffic of the vast territory it would serve would tax its capabilities to the utmost In 1856, the Government applied to the late James Walker for a report, which he submitted in 1858. The plan accompanying it shows the Napier mole completed, but no other works is a pool in the backwater 14 ft deep at low water connected by a tortuous channel with Chinna Creek A similar depth is shown in a double channel beginning near deep water point, and reaching into deep water soon after passing a bar projecting from Manora Point, and another isolated pool of the same depth opposite

The number of ships using the port, which numbered 2,189 in 1854-55 of 114,889 tons, rose to 3 262 and

290 743 tons in 1859-60

Sir Bartle Frere on April 4th 1859 turned the first sod of the Scinde Railway from Karachi to Kotri on the Indus, 108 miles it was opened in 1861. An iron viaduct 1,000 ft long wherewith to cross the mouth of the Chinna Creek had been ordered. Locomotive and erecting and repairing shops had been erected near Cantonment Station at a junction of the main line and a branch to Ghizni on the coast, east of Clifton, where there was a pier and a dockyard.

In 1863 the eastern groyne at Kiamari was about half done a new Custom House had been built at the north end of the Napier mole which obstructed all improvements until it was cleared away quite recently. The Government were deepening the bar and intended providing greatly extended wharf and



NATIVE JETTY, KARACHI

quay accommodation direct with the Scinde Railway, whereby a great improvement was being introduced and was making rapid strides, so they said, in the system of loading and discharging cargoes

The bar at the mouth of the harbour had then 17 to 18 ft of water at ordinary tides and 21 ft

at springs-with a greater depth further There were two miles of native boats collected at Kotri, and not a single boat went below that place miles of railway were substituted for 230 miles of creek navigation Karachi is the only land-locked harbour between Bombay and the Persian Gulf-it is perfectly safe and easy of access by day and night for large ships even in the monsoons Commodore Young in 1854 took the steam frigate Queen into the harbour twice during the night and during the south-west monsoon, the Bussorah Merchant drawing 201 ft passed the bar when the register showed 22 ft Capt C D Campbell, RN, was the first to take a large armoured steamer into the harbour Ten years before Sir Bartle Frere had stated that on the line from Karachi to Aden the south-west monsoon does not blow with violence and is, in fact, a steady trade wind equally favourable for the run to The result of these or from Aden

considerations he said can hardly be other than a conviction that direct steam communication would be established at no distant period and so it has but the mails still go round via Bombay, as the direct steamers are all slow ones, and the companies stand out for evorbitant rates for a direct jast service

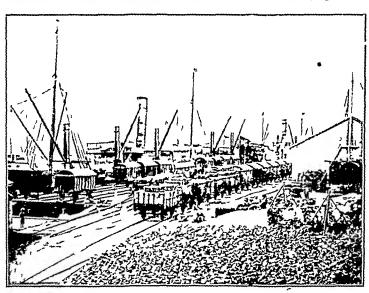
between Aden and Karachi whereby 2 or 3 days might be gained between London and the North-west frontier During the construction of the Scinde Railway more than a hundred ships had brought materials to the port without a single mishap

It is curious to note that at this time Sir George Bidder regarded Bombay and Karachi as the only two good ports Madras was no port at all and Calcutta was as bad as it could be '

The Krimari groyne was completed in 1863 and greatly increased the scour in the harbour, but deposited the sand at the entrance, owing to the want of a breikwater on the west to conduct the scour into deep water. The Government had rehed on this groyne doing all the work, but were disappointed, and the breikwater and dredging, as at first contemplated had to be carried out.

By 1874, the bridge and the mole had been built, Chinna Creek had been stopped up, and a branch of the railway had been taken round the swamp from near Cantonment station to and along

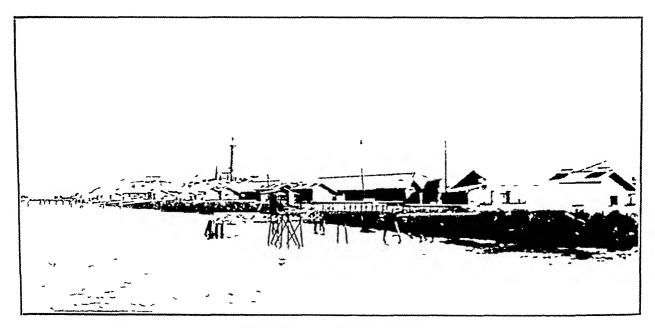
Kiam iri Island The main line ended at the Bunder Head and did not reach as far as the new Custom House A training bund along the new channel past the Native Jetty in the Upper Harbour had been put down and a depth of 14 ft below datum had been obtained. There was a railway pier and



ERSKINE WHARI, KIAMARI, KARACHI

another one at north end of Kramari Island the pool in the backwater had gone the east ground at entrance extended half was along Manora point the breakwater was completed and there was more than 20 ft of water below datum in a narrow entrance going to a point half was up the ground, there was a pool of the same depth opposite kramari, and the channels generally had widened but not deepened The vorb according to the plans of Messrs Walker and Parkes had been begun in 1860 the first block of the bread water was laid on August 1st 1871. It was not completed till some 14 years later on January 17 1871. Up to 1865 the works were under the Public Works Deputment they were suspended for want of funds from 1866-68 and were resumed the vear after but much delay was clusted throughout for the same reason. The East groung at the entrance of the harbour at the end of 1875 was 8 900 ft long the dredging of the bar wisin

structure at the outer end and funned toward, the har Above this concrete block are laid measuring 12 ft long by 8 ft deep by 11 ft thick verifing 27 tons appear undeach block representing nine inches in length of the breakwater as many is 19 of the e vere lud in one day and six of them in 10 minutes They were set on edge without bond two forming width and three the height or 24ft eight as. Thes are laid with an inclination towards the shore of 3 in to tift or ting. For josit from the shore the top's as levelled on with concrete to 1 ft above H. W. S. T. dropping to this level in the next 168ft. The come of tide is 7! feet it means primes and 12 ft at extriordinary springs. Storms are unknown, the greatest velocity recorded in 1870 75 was in hour's squill from the N N L of 62 m p h I rom the middle of June to the middle of September the SHV monsoon brings heavy seas. From mid October to mid Lebruary strongers



DISTANT VIEW OF MANORA, KAPACHI

progress the rocky obstruction at the mouth called Deep Water Point was being excivited a channel 2½ miles long had been formed in the upper harbour a jetty 1,400 it long existed at the end of this channel an iron screw pile bridge had been thrown over the gap made in the Napier mole, through which the break water was filled by and emptied into the channel the Chinna Creek had been closed by a bund 2,700 it long. The direct entrance channel was now 6 it deeper than the old circuitous one, and all vessels, from native craft upwards, could now use the harbour at all times 45 lakhs had been spent on improvements, of which the Manora breakwater is 1,500 it long terminating in 5 fathoms at low water the base is of rubble stone, levelled off mostly to 15 it below low water, its width on top is 100 ft, and it is extended 60 it beyond the super-

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terly winds blow but do not raise agreet swell between these periods strong breezes or squalls occur and raise seas that are not formidable to magnitude

In his presidential address on January 11th 1881 Mr James Abernethey the President of the Institution of Civil Engineers, stated that the entrance channel was then direct and widened and had a depth of 20 ft at L W and 28 ft at H W that the harbour was fully sheltered from heavy seas and that the internal harbour had also been considerably enlarged

With the exception of the bridges over the Indus the Indus Valley Railway was completed in November 1879, and the Merewether Pier was opened in February 1883, having one berth for a large vessel, it was fitted with one 32 ton, and seven 35 cwt moveable hydraulic cranes. The pier was T-shaped, and barges could be berthed inside the arms. As shown in the table given

earlier the exports of wheat rose from 9 lakhs in 1881 to 130 lakhs in 1883 and to 586 lakhs in 1885. This sudden flood was quite unexpected and it was almost impossible to cope with it. The Railway Company remodelled the export yard at the McLeod Station opened a separate import yard near the native jetty, built a wharf 720 ft long at Kiamari for lighters erected extensive shedding there and rearranged their sidings at that place so as to give an enormous stacking ground. All the wheat from the Punjab had to be taken across the Indus at Sukkur in boats and the arrangements both at Multan and Kotii were heart-breaking, owing to the line between these places belonging to the State while the railways on either side were in private hands

The Erskine Wharf was opened in 1887 and five of the largest steamers then known could be alongside and were served by one 12 ton, and twenty-two 35 cwt

moveable hydraulic cranes

The Railway to Quetta was opened in the same year, and the Sukkur bridge over the Indus on March 27,1889

At the end of 1891, Mr Price was able to report that the breakwater had practically required no repairs though the outer part had settled below H W. The expenditure on maintenance had averaged 1 per cent and had been mainly applied in raising the top with a layer of concrete to make up for settlement into and with the rubble mound, and in feeding the mound, mostly at the outer end There are now four Dredgers employed at the Port, viz—the Edward Jackson, Il illiam Price, Albuquerque, and Shighi, and they lifted 1,054 735 tons, or 21,087,500 cubic ft of material in 1907

The following figures show the great improvement in the area of the harbour with 20 ft at low water 1858, 58 64 acres 1890, 20147 acres 1898, 237 54 acres 1907, 310 33 The patch called "Deep Water Point" near the entrance, is still useless as an anchorage at certain times, and a bare rock still exist on the west of it, though much smaller, and the so-called Morris Rock" in the middle of the entrance channel, though lowered so as to clear the deepest vessel at all times, still stands 20 ft above the bottom and so causes eddies The entrance channel has now a sufficient navigable width with a depth of 24 ft at low water right up to the northern limits of the wharves which are 4,000 ft long, and which now extend as far as they can until the main line of the railway has been shifted to its new position further north. The effective depth on the beaconed entrance line to the harbour is now 25 ft at low water ordinary spring tides The average income of the Port is over 20 lakhs, while its expenditure It is paying off a debt of 66 lakhs is under 16 lakhs

The line Hyderabad to Shadipalli was opened on the standard guage in 1892 (after much discussion it was converted to metre gauge in 1901) and connects with the Jodhpur-Bikaner line, thereby opening a shorter route to Bombay and with the Rajputana-Malwa system Strenuous efforts have been made to prolong this metre gauge line into Karachi On January 1st, 1892, the North-Western Railway was extended to

Chaman from Quetta The Southern Punjab Railway from Samasata to Delhi was opened on November 10th, 1897, whereby the distance to Delhi was shortened by 187 miles The Kotri bridge over the Indus was completed on May 25th, 1900, and the Kotri-Rohi chord along the left bank of the Indus in December 1896

An export yard covering 52½ acres was made available during 1895-96, and here the wheat can be sorted, graded, and cleaned. The refraction or dirt is not allowed to exceed 2½ per cent, and even this amount is penalised, so that wheat is now shipped as clean as possible and in the original bags—whereas formerly it used to be cleaned up-country to save weight in rail transit, and a fixed and large proportion of dirt used to be added in the merchants' godowns to which it was carted from the railway station. As wheat is paid by bulk in ships, the dirt did not add to the cost of transport

An import yard covering 19 acres was established in 1896 and is close to the business part of the town

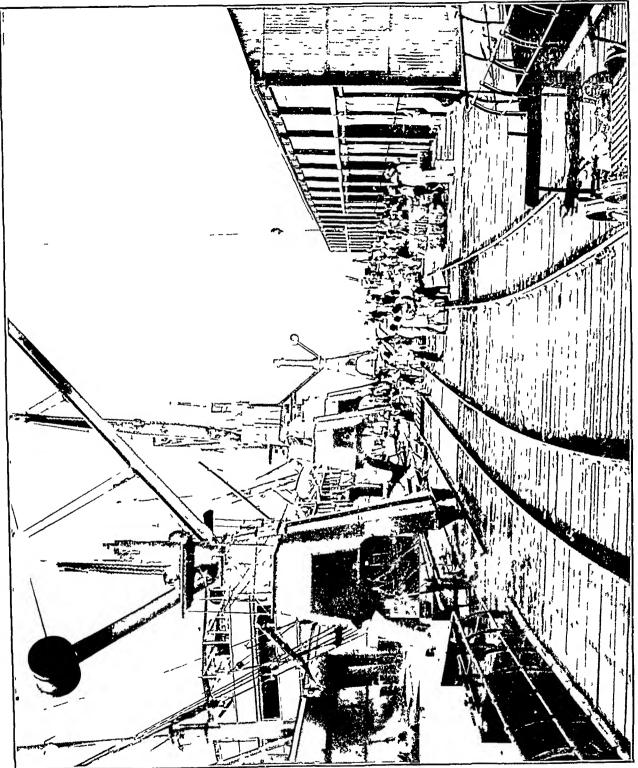
There are sheds and sidings on it

At the request of the Port Trustees a committee of experts was appointed by the Government and a scheme has been formulated to cost 100 lakhs. Extensions and improvements to the wharves to accommodate 15 large steamers, with a passenger basin, overbridge for the road, and a new bridge east of the present one in the Napier mole, are estimated to cost 45 lakhs. A new export yard of 150 acres to be reclaimed from the backwater on the Queen's Road and a new Import yard come to 55 lakhs. All this work is in hand

The Chamber of Commerce was founded in 1860, being the first year when European firms from Bombay opened branches in the city. A building to accommodate the Chamber was opened early in 1865. Since 1893, the Chairman of the Chamber has been regularly appointed to the Presidency Legislative Council. The Chamber is composed of 45 Members, and the "Committee of the Chamber" has eight Members besides the Chairman and Vice-Chairman.

The Port Trust was formed in 1886 and the Act establishing it was amended in 1892. The Collector of Karachi is the Chairman, and the Collector of Customs the Vice-Chairman, of the eleven Members two have to be natives of India Government nominates the two Chairmen and four other Members the Chamber of Commerce elects three, and the Municipality Besides the work enumerated above, the Port Trust have elaborated a scheme for extending the wharfage accommodation at the head of the harbour to any extent required, from time to time, by building piers on what has been called the "comb" principle, jutting out from the shore long enough to serve the largest vessels, and sufficiently far apart to allow them to swing out from their berths. The policy of the Trust has ever been to anticipate requirements so as not to check the expansion of the traffic, whereas it is difficult to get Government sanction for work until the pressing necessity for it has arisen

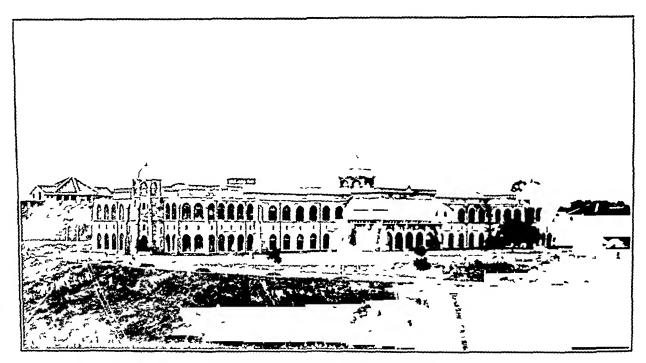




passed into the keeping of the Moghuls. In 1664 the Mugh excursions and depredations caused Nawab Shaista Ishan, Governor of Bengal to fit out a big expedition to secure the perminent conquest of Chittagong. A full and detailed account of this is to be found in Stevart's History of Bengal, pages 187 to 189 (1847 edition), and it was after the conquest that the town first received the name of Islamabad which means "Residence of the Pathful".

The first connection the English had with Chittagong was in 1685 when the East India Company was at war with the Emperor Aurungzeb. English trade had been much harassed by the exactions of the Moghul Governor of Bengal and disputes eventually terminated in hostilities. Admiral Nicholson, then in command of the Company's fleet, and the naval conductor of Agent

maintenance of five hundred European horse, two thousand European infinitry and eight thousand sepoys which are to be entertained for the protection of the Royal dominions." This grant of Chittigong was renewed by Mir Jafir in 1763 when he was restored to the Governorship by the Company, and was confirmed by a firman from the Emperor Shah Mam, dated August the 12th, 1765. At the time of its cession Chittigong town and the district comprised an area of some 2,087 square miles and yielded a total revenue of Rs. 3,23,135. A certain Mr. Verelst had previously been appointed to manage the Company's affairs as Chief of Chittigong, and he arrived there first on the 8th of November, 1760, from which date the district entered upon an era of peace such as it had not enjoyed for many a long year. The records of the



THE ASSIM BENCH RAHWAY STATION OFFICES

Job Charnock, was directed to tale ten ships of war, each carrying from 12 to 70 guns, and proceed to Chittagong, seize it and fortify it in order that it might be made a permanent settlement for the British. This, however, was never accomplished. In the year 1760, the Company deposed Mir Jafar Khan from the Governorship of Bengal, to which he had been appointed after the battle of Plassey 3 years before, and elevated his son-in-law, Mir Kassim Ali Khan, to the position, and under the 5th article of the treaty made with him in September 1760, Chittagong was ceded to the British by the Nawab. The sanad confirmatory of this grant is dated the 15th of October in the same year and sets forth that "the thana of Islamabad or Chittagong is granted to the English Company in part disbursement of their expenses and for the monthly

Revenue Board for the year 1782 disclose the fact that Chittigong was then regarded as an orderly and peaceable district which could be trusted to supply the Company's Resident at Tipperah with military assistance should he ever require it. The annexation to Burma of the independent kingdom of Arracan, which followed shortly after a war upon Arracan by the Burmese in 1784, led to hostile relations between the Burmese Court at Ava and the Chittagong authorities which continued more or less, although there was no overt act of actual hostility, up to 1793, when three insurgent chiefs who had been defeated by the Burmese king, fled from Arracan into the Company's territory of Chittagong, and the Burmese sent an army of 5,000 men across the river Naf after them Negotiations followed, and the invaders only retired after receiving a

written assurance that if the fugitive chiefs were found guilty after an impartial investigation they would be surrendered to the king. This was subsequently done, and it is said that the act gave the Burmans a poor opinion of the strength of the British who, they imagined, were afiaid to go to war with them and property, however, in Burma do not appear to have been particularly safe in those days, especially in the conquered province of Arracan, and in the period that followed, large numbers of Mughs, taking advantage of the comparative safety offered in British territory, emigrated from Arracan and settled in and around Chittagong This Mugh emigration which assumed large proportions, was indirectly one of the causes of the first Burmese war, as the Burmese king regarded with alarm the rapid depletion of the population of the province and the consequent lowering of the revenue he exacted from it, which revenue was always levied to the last penny. The Viceroy of Arracan, acting under orders from the Court, which he represented, sent an army across the frontier to enforce the return of all Mugh emigrants to their homes, but the force eventually retired without having done anything as its presence was required in another direction to assist in a fierce tribal war From this time onwards until February 1824, the date of the proclamation of the first Burmese war, there was much ill-feeling between the Company's authorities in Chittagong and the Arracan Viceroy, which was reflected among the villagers on both sides of the frontier where many petty acts of violence occurred from time to time for which both sides appear to have been equally to blame In the beginning of May 1824 a Burmese army consisting of over eight thousand men under the orders of Maha Bandula (who, however, himself remained at Arracan) and commanded by four petty chiefs, crossed the river Naf and after a three-days battle near a place called Ramu annihilated a small detachment under a Captain Norton that endeavoured to stay its progress Captain Norton himself was killed as also were five other British officers who were The Burmese then proceeded to march on with him Chittagong which lay practically at their mercy, when the monsoon broke and speedily rendered the apologies for roads which existed and the intervening rivers impassable, so that they were obliged to halt, the opportunity being taken by the Company to strongly reinforce the slender garrison of Chittagong occupation of Rangoon by the British troops followed, and the Burmese army instead of continuing its march, retired hastily to the south, and this was the last time that the province suffered invasion

During the troublous times of the 1857 Mutiny, the native garrison of Chittagong was reduced until only the 2nd, 3rd and 4th Companies of the 34th regiment of Native Infantry were stationed there, and they were to all appearances loyal, in fact, they frequently petitioned to be allowed to take part in the British advance against the mutineers, a course which the inhabitants of the town urged the Government to allow as they had their own suspicions of the protestations of loyalty put forward. However, the three Companies were not moved, and eventually, at II PM, on the 18th of November, they mutinied, broke open the

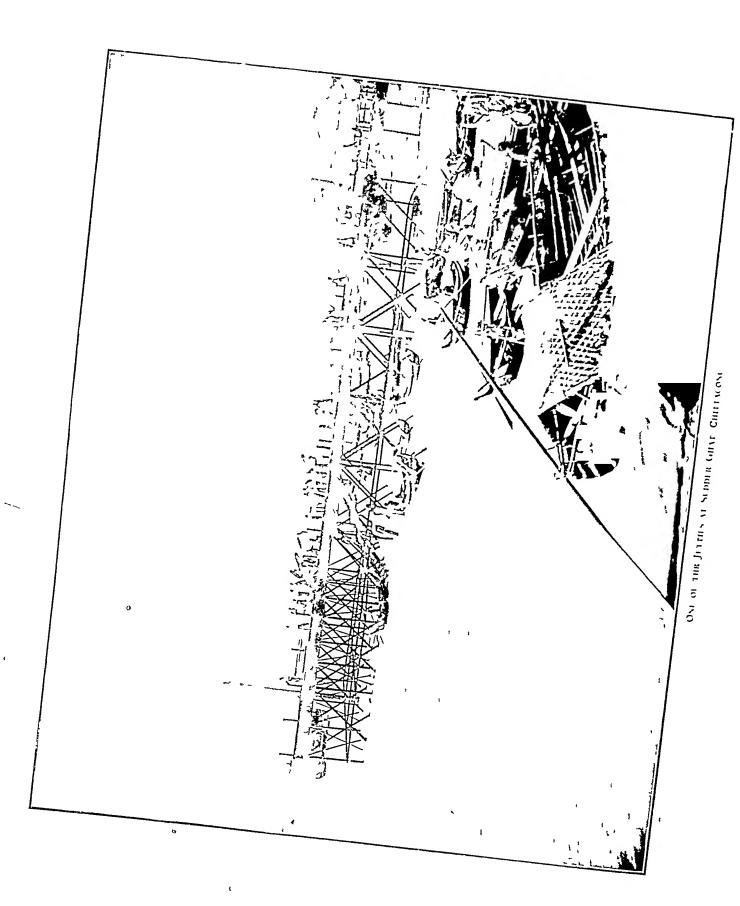
jail, released the prisoners, captured and sacked the Government Treasury and then marched out of the town in a perfectly orderly manner carrying their booty on three elephants and dragging in their train a large number of women It is not recorded that any European was even assaulted by them, and only one native, a head-constable of police on guard at the prison at the time it was broken into, was killed The mutineers marched out of British territory into the State of Hill Tipperah, but although followed by a detachment of British troops sent from Dacca, they evaded these, and were eventually dispersed, after having endured immense privations, by the Sylhet Of the treasure they had left Light Infantry Chittagong with some Rs 35,100 was subsequently recovered from various sources

We now come to the Chittagong of to-day, a very different place to what it once was Before doing so, however, it will be as well to make some little mention of the Karnafuli river, on one bank of which Chittagong is situated and to notice some of the

different races which populate the town

The Karnafuli river rises in the north-east of the Chittagong Hill tracts and enters the Chittagong District from the east, eventually discharging its waters into the Bay of Bengal It is to some extent navigable as far as Kasalang, 96 miles from the mouth, but the distance varies with the season of the year The principal tributary, in fact, the only one of any note, is the Haldar, a stream which is navigable by country boats for some 24 miles throughout the year, and 36 in the height of the rainy season Down both these, a large country boat traffic finds its way to Chittagong Port, and the two streams contribute materially to the flourishing state of trade in the surrounding district. The population is an exceedingly mixed one and the succession of Arracanese immigrations which we have already noticed have left their stamp on the present day inhabitants There are 65 Hindu castes to be met with in the district itself, but Mahomedans form the great majority of the population, the descendants of the Moghul conquerors who settled in the district when it formed a unit of the Delhi Empire It is, however, a fact worth recording, that in 1872, the then Collector reported that Mahomedanism had ceased to make any headway among the people, its place being taken by Buddhism Anyone who has any acquaintance with the present Chittagong will be aware that this is equally true to-day Buddhist priests are actively at work in Chittagong and they have a monastery of some dimensions there which forms their head-They come from Burma and are unremitting quarters in their zeal to obtain converts

The Chittagong of the past was a sleepy, torpid, old-world town, which only awoke to activity at the sounds of warfare or the cry of the roystering pirates who once made it their stronghold. The Chittagong of to-day is a bustling, thriving, growing centre of industry and of commercial and railway activity. a Chittagong of jetties and warehouse godowns and offices, and numerous other buildings, springing out of the dank, evil-smelling tropical verdure, and alongside numerous green scum-covered tanks which abound everywhere, and which are the home and the breeding place of the



mosquito the gad-fix and a hundred and one of the other insect pests which are to be found as demizens of most swampy places in India. Such is the Chittigong of to day a coming town

In the centre of the town is the ruly as station a time red brick building approached by a semi-circular drive leading to a high archivised entrince and surmounted at either end by stately vilute domed minurets the vhole throvin into fine relief by the waving deep green background of palms excepers each and foliage of a like nature. The building has been designed on generous lines and with every thought for the future expansion of traffic The booking offices and virting halls are spacious and airy while the clerks offices fool cool and inviting on the hottest of days. This is practically the starting point of the Assam Bengal Ralvas in line which with its branches runs for over 700 miles into the interior of the province terminating at Linsukia a small station in the heart of Assam - I rombers a branch I no takes off to the Port one and a half makes is as and all day and all nightly agons heavily laden with rice from Burma salt ten factors much ners etc. etc. tre being hauled into Chitagong to be marshalled in the vards into trans for the north the villages of the interior and tengardens of Assim and Cachar. The eng nes return again to the Port vith empty vigons or in due season with heavy loads of jute bales or filled teachests for oversex export. The Assum Bengal Ryll vay vas first started in 1802, but vas only completed as lately as 1904 y hen the line y as formally opened by Lord Curzon then V ceros of India the event being made the occasion of some ceremony. Down at the Port itself there is a Chittagong, that even the most superficul observer can see has come to remain develop Its management is in the hands of the Assam Bengal Ruleas Company who have a scheme well in hand for building eight jettles to accommodate ocean I ners at all seasons. Of these eight jettics three are already in existence and two in course of construction while it is said that there will be no delay in building the remaining three. It may be mentioned in passing, in connection with the creation of the modern Port, that in 1905 in inspection vais made of it at the direction of the Government of Bengal Marine Department, by Messrs Dum ivne and Palmer, Vice Chairman and Chief Lugineer of the Calcutta Port Commission, and these gentlemen subsequently formulated a special report as to the requirements of the Port and the design of the jetties to be constructed. At that time only ty o jettics were in existence, though the first proposal for a third was made as far back as the year 1902. The arrangements for discharging and loading vessels are thoroughly up to date, the most modern type of hydraulic cranes having been provided and there is a complete electrical installation which permits of night work being undertaken. To each jetty there are two sheds, long structures of galvanized iron, generally filled with tea chests, rice bags, or jute bales. The railway lines are find alongside the sheds to facilitate easy loading and the yards are capable of accommodating a large number of trains duly. Higher up the river bank is the installation of the Burma Oil Company, and, beyond, the mat-walled godowns and stores of many

large trading firms both European and Native, whose names are household words in the Indian business vorld and whose Chittingong houses are becoming branches of growing importance as the magnitude and scope of their business extends

spells prosperity which is obviously present

Wherever you go, there is babel and a confusion of tongues. Standing on the jetties one may hear the broad Scotch of the ship's officer or ship sengineer or the Cockney twing of his fireman, intermingled with the shrill cries of the brown skinned liseurs and dock workmen as they go noisily about the day's toil. Burmans attired in flaming coloured silks with the handle of the wicked looling kris peeping out from the folds around the loins, gravely transact their business as importers of rice and timber from Rangoon, Moulmein or Akyab in Arrican side by side with scarcely less start ingly attired but more energetic little men from Militsia with in occisional Chinaman The lev the Burman the Malix the Chinaman, the Punjabec and the Bengalee can all be seen at Chittagong Port, fraternizing over business or arguing among themselves or with the farther ifield vanderer from Assam and the fir away Nepaulese funterland. In respect of hire the Port has been unfortunate as a jetty with its sheds a as burnt down in November 1906, and further tires have taken place there on two other occasions

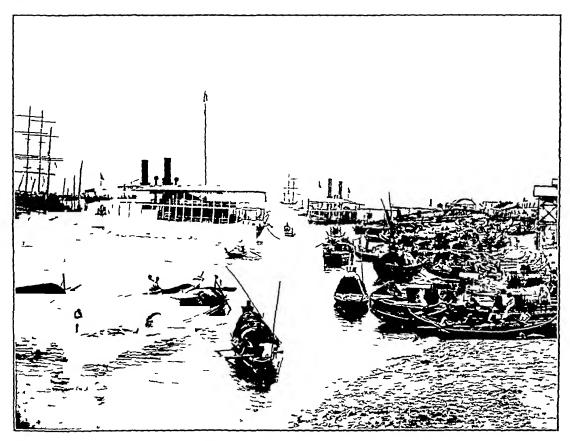
Ap irt from the Port through which the whole of the mport and export trade of the Province passes the inhibitants of the town and surrounding villages are largely engaged in the fishing industry which is the principal occupation of a large number of people. Not only is fish the staple article of their diet, after rice of course but it is available in such quantities that a flourishing drying and curing industry has sprung up the cured article being exported to Calcutta and also supplied for the consumption of the inhabitants of the less favourably situated villages further in the interior There are numerous varieties of fish in the sea within measurable distance of the coast and in the estuaries and tidal rivers near the coast and in the many rivers and tanks which the province possesses. Of these, the principal found in the sea are Shapha Bacha, Baim (cel) Bhola, Buka, Chil (kitefish), Chluna, Chringri (shrimps and privins), Hilsa or Elsa, Kharsuli, Bhetki Tapsi, etc., etc. in the rivers Air, Buta, Chiring, Pabda, Sclash and Gulit, in the tanks Bull, Bhinda, Boal, Chit'il, Cheng, Korsu, Magur, Maluapuntlu, Gajal and The fish industry has recently attracted European enterprise and some two or three years ago a number of gentlemen floated a Company known as the Chittagong Fisheries Syndicate, the object of which vas to travil for sea-fish, a portion of the catch to be offered for local consumption on the Chittagong market, the remainder to be dried and exported Circumstances are favourable to the operations of the syndicate, though up to the time of writing very little actually appears to have been accomplished

The European population of Chittagong is not a large one, being divided almost equally between railway employees, Government officials and business men, but it is appreciably increasing as the town and port expand, and there is every prospect of it continuing to do so

The Port of Rangoon.

Although the Rangoon of to-day has practically been created since 1852, in April of which year a British force captured the city on the outbreak of the second Anglo-Burmese War, the British connexion with the place dates back to 1790. Up to this time Rangoon had been little more than a group of hovels just above the level of low tide, and the district had been the scene of incessant struggles between the Burmese and Peguans Local legends said to be confirmed by Tamil and Telugu traditions, state that in some unknown cen-

ered as historical is given in the Singhalese Mahawanso which mentions the mission of Sono and Uttaro sent by the third Buddhist Council (244 B C) to Suvarnabhumi, to spread the Buddhist faith. It seems clear that the delta of the Irrawaddy did not escape from the contest between the followers of the Brahmanical and Buddhist faiths which lasted for hundreds of years until the end of the 8th century when the victory eventually passed to the one body in India, and to the other in Burma



THE IRRAWADDY RIVER-RANCOON

tury before Christ the inhabitants of Telingana, or Northern Madras, colonised the coast of Burma, finding there a Mun population, by which designation the Peguans still call themselves, whilst Telingana appears in the modern word Talaing According to Hunter, the Palm-leaf Records assert that the Shwe-Dagon Pagoda at Rangoon was founded by two brothers who had met and conversed with Gautama Buddha in India But the first notice of the country that can be consid-

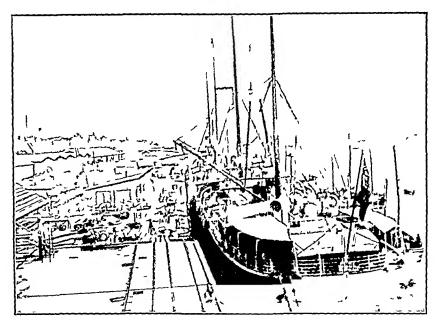
In the wars between the sovereigns of Burma and Pegu, Rangoon or as it was then called, Dagon, fre quently changed hands Punnarika, who reigned in Pegu from 746 to 761, is said to have refounded the town, and named it Aramana, and it was not until later on that it regained its original name of Dagon In 1753 Alompra drove out the Talaing garrison of Ava, which was then the Burmese capital, and he eventually conquered the Talaing dominions. One of his first

acts was to repair the great pagoda at Dagon he also entirely rebuilt the town, which had by that time lost all its importance, although what are now suburbs of the town, Dala and Syriam, evidently flourished to

city was again captured by the British forces and this time they held it. With the permanent occupation of the city commenced its maryellous development under British rule, and as about five sixths of the Maritime

trade of Burma passes through Rangoon, the history of the commerce of the Province is very little more than a history of the progress of this single port. The first commercial treaty entered into bety cent the British (covernment, and the Court, of

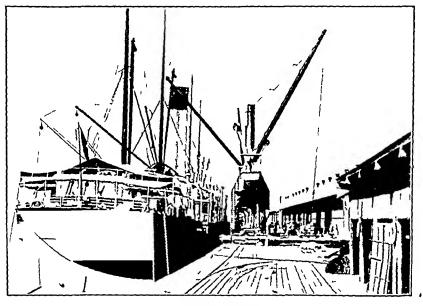
Government and the Court of Avi was signed in 1826 after Rangoon had been given back to the Burmese by the trenty of Yandabo -At this time Rangoon v is practically the only port of foreign trade in the Burmese do minions. Its situation was extremely convenient for commercial purposes-within twenty miles of the open ser and commanding the navigation of the Irrawaddy which extended to Ava the capital a distance of about 500 miles. At this time, however, the place itself was not of an imposing nature, and according to contemporaneous accounts the town and suburbs extended lengthy isc about one mile along the bank of the river and was about three-



SULI PACODA OLD WHATF

some extent, judging from the frequent mention that is made of them in the records of the period After rebuilding the town, Alompra gave it the name of Yan Kon ('the end of the war) or Rangoon, and made it the seat of a Vicerov From that time until 1790, when the British first appeared on the scene, incessant struggles between the Burmans and Peguans for the possession of the place made the history of Rangoon, and the Burmans were in possession in 1790 when the East India Company obtained leave to establish a factory, over which the British colours were hoisted A few years later trouble arose in Arakan and Chittagong between the East India Company and the Burmese Government, and Captain Symes was sent on an embassy to Ava, one of the results of his mission being the appointment of a British Resident at Rangoon in 1798 In the first

Burmese War in 1824 Rangoon was captured by the British, but it was subsequently evacuated in accordance with the terms of the Treaty of Yandabo On the outbreak of the second Burmese War in 1852 the



SULT PACODA NEW WHARF

quarters of a mile in depth the houses being very unequally scattered over this area. The population was estimated at 18 000. As regards commerce a report written about the time the first commercial treaty was

signed says that a considerable intercourse was carried on between the Burmese and Chinese dominions by an annual caravan, of which the merchants were all The imports from China consisted of manufactured articles, the chief export from Burma being cotton wool The trade with "foreign countries" seaward was carried on with the ports of Chittagong Dacca, and Calcutta There was also a certain amount of commercial intercourse with Madras and Masulipatam on the Coromandel Coast, the Nicobar Islands, Penang and the Persian and Arabian Gulfs The largest trade, even in those early days, was with Calcutta owing to the large consumption of teak timber in the capital of India, and the facility with which she could supply the demand of the Burmese for Indian and British cotton goods The chief exports from Rangoon were teakwood, catechu stick lac beeswax, elephants' teeth and tusks raw cotton, gold silver rubies sapphires and horses By this latter is, of course meant the small, hardy pony of the country, formerly so much esteemed in India By far the most important of these commodities was the teak timber The annual quantity of this wood exported was said to be equal to 7,500 full-sized trees The teak forests of Pegu were by far the most abundant in India wood was nowhere to be found in the low alluvial lands, to which the tide reached but abounded in the high lands beyond its influence and was indeed very generally disseminated throughout the Burmese domi-The principal imports into Burma from India and Great Britain were cotton piece-goods and British woollens There was also a considerable trade in iron, steel quicksilver, copper, opium, spirits, tobacco, glassware, gunpowder, and a variety of other articles The Burmese had few cotton manufactures of their own, and appear, from very early times, to have been furnished with the principal part of their supply from the Madras coast To these were afterwards added the cheaper fabrics of Bengal, until both were in a great measure superseded by British manufactures, the use of which spread very rapidly once trade was opened In 1826-27, the earliest period for which we have been able to discover authentic returns the total imports and exports of the Port of Rangoon were estimated each at £300,000 or a total seaborne trade of £600 000 annually

It is curious to note that in these early statistics, which were doubtless very incomplete and were not official no mention is made of rice, the staple food grain of the Province and, for years past, its chief article of export. To an old circular, issued in 1858, by Messrs Gladstone Wyllie & Co of Calcutta we are indebted for the information that in that year the exports of rice from the Port of Rangoon had attained considerable dimensions and were showing a very rapid increase. So much so indeed, that they sprang up from nil m 1853 to the large total of 112,561 tons in 1858. This increase attracted marked attention at the time as affording a partial indication of the almost boundless resources of the rich Province of Pegu

The history of Rangoon, so far as its commercial importance is concerned, may be divided into two parts i.e., the periods previous to and following the annexation of Upper Burma by the British Before the

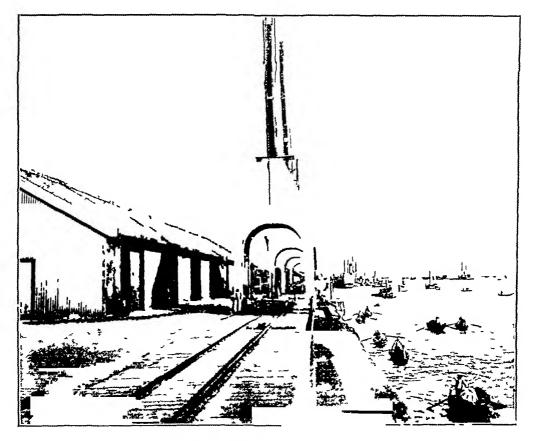
annexation the commercial prosperity of British Burma had more than kept pace with its rapidly increasing population From 1855, the external trade of the province had shown a constantly progressive increase and had risen from £5 000 000 in that year to £21,000 000 in 1881-82 These figures were made up as follows — Value of seaborne trade in 1881-82—imports, £8 077 000 exports, £9 288 000 Value of land-frontier trade—imports, £2 018 000, exports, £1,765,000 Total value, imports, £10,095,000 exports, £11 053 000 aggregating a total of £21 148 000 Of this Rangoon absorbed about 90 per cent of the whole of the foreign import trade and about 60 per cent of the foreign export It was the rice produce and the rice exports that had made and maintained the prosperity of British Burma up to that time and this most important industry was carried on by the rice-mills of Rangoon and its suburbs which freed the rice from its husk and prepared it for the European Chinese and American markets It was the enterprise and the skill of the Rangoon rice merchants that gave such an impetus to the trade that Burmese rice was sent direct from the mills to England, Italy Austria Germany, Holland France Brazil, the Straits China and Mauritius, and a report issued about 1880 mentioned that Burmese rice had reached Iceland and that in Northern Germany the Burmese grain was coming into use as an article of food among the poorer classes At this time there was but one line of railway working in the province although another was approaching completion the history of which will be found in the article on Burma Railways The whole of the land frontier trade was conducted by the Irrawaddy route and nearly all the traffic was carried by the steamers of the Irrawaddy Flotilla Company This Company which had done so much for the development of the country, and was of such material assistance in the last Burmese War began business in 1868 by taking over two or three old Government steamers and flats fleet was gradually increased until at the outbreak of the last war they possessed about 50 steamers a proportionate number of flats, and carried yearly between British and Independent Burma goods to the value of upwards of four millions sterling besides about 50 to 60,000 passengers—over and above the large traffic they did in purely British waters One or two steamers belonging to the King of Burma also plied on the river but got but little freight although the trade to Mandalay was entirely in the hands of Chinese and Burmese merchants

Meanwhile, matters in Upper, or Independent Burma, had been going from bad to worse. While this part of the province had been under the rule of King Mindoon things had worked fairly smoothly and the treaty of 1867 which provided for the free intercourse of trade and the establishment of regular diplomatic relations had been on the whole satisfactorily adhered to. But when in 1878 King Theebaw ascended the throne on the death of his father the government of the country became rapidly bad. Control over many of the outlying districts was lost and the elements of disorder on the British frontier were a standing menace to the peace of the country and to its commercial progress. Matters were brought to a crisis towards the end of

BARR STRILL PASSACLI JITTA

1885, when the Burmese Government imposed a fine of £230,000 on the Bombay-Burma Trading Corporation, and refused to comply with a suggestion of the Indian Government that the cause of complaint should be investigated by an impartial arbitration. This imposition of an impossible fine on a British mercantile firm which had for veris been engaged in the export of timber from the great teak forests of the King's dominions coupled with the threat of the confiscation of all their rights and property in case of non-payment was the direct cause of the Burmese War of 1885, which resulted in the dethronement of the King and the annexation of his dominions.

progress of the country seemed to be the last things considered. It is difficult to account for this inaction. It certainly was not due to lack of money. The real fact of the matter was that successive administrations had been running the country on economical lines with the result that while the budgets showed a surplus the development of the resources of the country was utterly neglected and the opening out of land-locked tracts by means of roads and railways was at a standstill. All this had its due effect on the commerce of the Port of Rangoon which although it had even at the time of the annexation, attained large dimensions was later under more settled conditions to increase by leaps and



LATTIR STRILL NEW WHARI

No more remarkable story than that of the pacification and progress of Burma can be told of any portion of the Indian Empire, and there can hardly be a more striking proof that there has been no falling off in the qualities necessary for the wise and vigorous government of a great dependency than the manner in which a large portion of this province his been transformed from a condition in which there was no tolerable government, and no safety for life or property, into a peaceful and prosperous country. The pacification of Upper Burma was not, of course, effected all at once and the conquest of the country was followed by a period of stagnation, in which the development and

bounds Before the war, the whole of the trade of the district centred in Rangoon City and communication was carried on mainly by numerous tidal creeks. There were 112 miles of made road in the district, the principal being that from Rangoon City towards Prome now taken up by the Irrawaddy Valley State Railway Rangoon itself was already a city of considerable importance with an elective system and municipal government. Then as now the Rangoon Municipality were a progressive body, and with a very limited income at their disposal (£160,802 in 1883-84), they had already erected fine markets supplied the town with good water from the Royal I akes carried out a scheme

under consideration for more than thirteen years, but it was only in 1905 that the scheme was sanctioned by the Government of India At the same time a special grant was made for the foundation of a Museum, and the new Chief Court buildings, after hanging fire for years, were proceeded with, and among other matters appertaining to the improvement of Rangoon, that were only set in motion, after a long period of incubation at about this time were the arrangements for clectric lighting and electric tramways and the removal from the sites formerly occupied of the Lunatic Asylum and the Jail These latter changes placed at the disposal of the Government one of the finest sites in the city, well suited for the extension of the Civil Station Other prominent buildings which have been added within recent years are the new Government House to the north-west of the Cantonment area, the Secretariat buildings to the east of the business quarter, the District Court buildings facing the river in the centre of the city, the new Roman Catholic Cathedral and the Jubilee Hall

Rangoon City now comprises the Port, the Municipality and the Cantonment and it is the terminus of all the railway lines in the Province A full account of the Railways of Burma, on which the further development of the country so much depends, will be found elsewhere in this volume, but since that article was written, and after years of persistent agitation by the mercantile community of Rangoon, supported by successive heads of the Province the Southern Shan States Railway has at last received the sanction of the Secretary of State It has been an up-hill fight on the part of successive Lieutenant-Governors who have steadily advocated the claims of that huge region known as the Southern Shan States to efficient communication with the outer world, but at last the all important official sanction has been obtained Meanwhile, with the continuous increase in mileage opened, the Burma Railways, like other lines have found that their general workshops are not big enough to meet the increasing These are at present located at demands upon them Insein, a suburb of Rangoon, and it was proposed some time ago to remove the carriage and waggon departments of the workshops to Yamethin, in Upper Burma There were, however, difficulties connected with the water supply at that station, so it was decided in new workshops near 1909 to build Mandalay and at the same time to extend and improve the locomotive works at Rangoon (Insein)

As before stated the great bulk of the maritime trade of Burma passes through Rangoon, and a history of the commerce of the Province is little more than a history of this single port. Its trade in recent years has increased with great rapidity. In 1856-57 the value aggregated only one crore. By 1881-82 this figure had risen to 11 crores and by 1891-92 to 19 crores. In 1901-02 in spite of a more stringent tariff than in the past it had mounted up to more than 26 crores while 1903-04 showed a further advance of nearly 6 crores on the figures of the previous year. Under practically all the main heads of import and export the growth has been steady. The staple produce of the country is rice and the value of the exports in this single commodity amounted in 1901-02 to 93 crores, compared with 6

crores in 1891-92 and 3½ crores in 1881-82. Next in importance comes teak timber with a growth in value from 22 lakhs in 1881-82 to 91 lakhs in 1901-02. Next in order comes oil, and the development of the Burma oil fields affords material for one of the most interesting chapters in the history of recent progress. The export value of the oil, which in 1881-82 was only 2 lakhs of rupees, had risen to 81 lakhs in 1901-02. The only item in the exports that has shown a falling off in recent years is Cutch. The following table shows in thousands of rupees, the actual figures of imports and exports (excluding. Government stores and treasure) for the three years selected, and for 1903-04.

	1881 82	1891 92	1001 03	1903 01
Impo ts	5 66 96	10 13,58	11 16 69	14 24 68
Paports	56,83	9 04 20	14 66 17	17 57 56
I otal	11 32 79	19 17 78	25 82,86	31 79 24

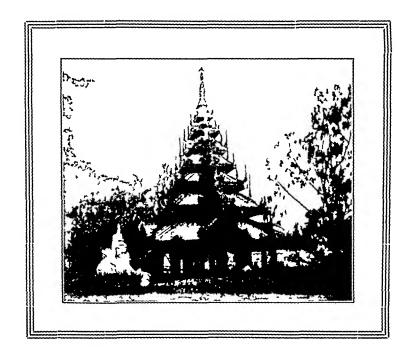
During the same period the customs revenue rose from 44 lakhs in 1881-82 to 60 lakhs in 1891-92 to 91 lakhs in 1901-02 and finally to over a crore in 1903 04 Owing to the increasing employment of vessels of large burden the number of ocean-going steamers entering the Port has not risen to an extent proportionate to the growth in trade and tonnage, the figures for 1881 82 being 931 vessels with an aggregate capacity of 655,000 tons while those for 1903-04 were I 190 vessels with a capacity of 2 005,000 tons

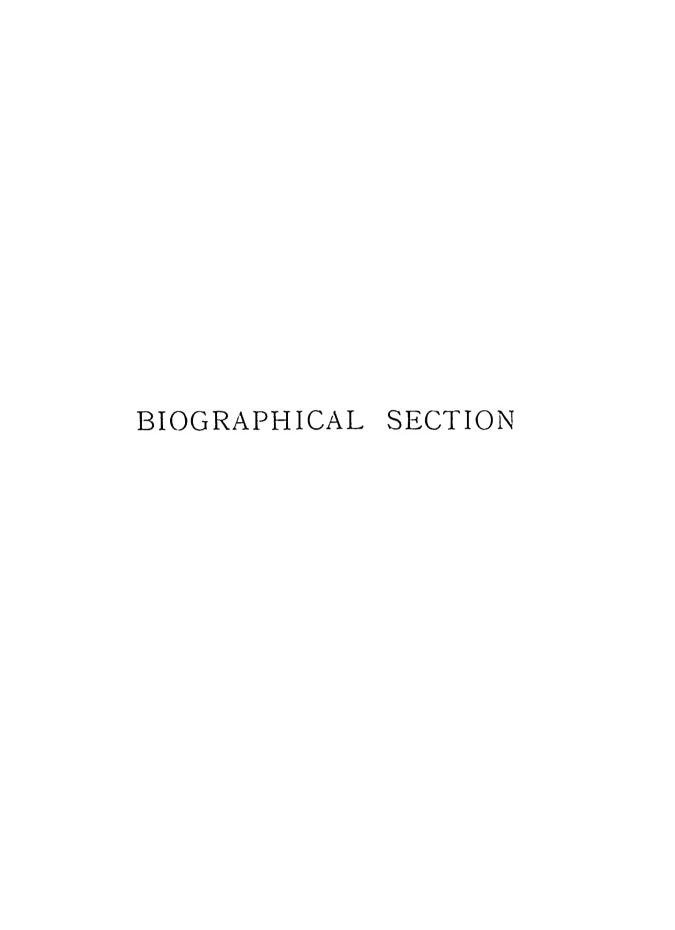
In August 1909 the Port Commissioners of Rangoon were authorised by Government to raise a four per cent loan of thirty two lakhs of rupees, repayable in thirty years, to meet the cost of river training and other works of improvement in the Port The works now in progress which only recently (July 1909) received the sanction of the Government of India are those recommended by the Chairman and Chief Engineer of the Port Trust so long ago as 1903 Previous to this 1 Committee of experts had been appointed to report on the measures that should be taken to regulate the action of the river along the foreshore opposite the town of Rangoon and to prevent further erosion of the Their report set forth the leading physical river bank characteristics of the river, and pointed out that with regard to works that are feasible, it should be borne in mind that the river is a great tidal basin from half a mile to a mile wide discharging from 300,000 to 500 000 cubic feet per second, with a maximum velocity of 5 feet per second and maximum depth of 70 feet below low water, with 20 feet tides, and that therefore it would be safe to assume that the scour round noses of spurs or unfinished embankments would result in depths of 100 feet below high water having to be worked in involving the use of vast quantities of material and a consequent prohibitive expenditure The matter was then allowed to drop until in 1900 the Government pointed out that nothing was being done to give effect to certain recommendations that had been made by the Committee with a view to preventing further erosion In 1903 Mr G C Buchanan Chairman and Chief Engineer to the Port Commissioners submitted his report in which he pointed out that the

only effectual way of dealing with the matter was to carry out certain works that would in his opinion bring back the south bank of the river to approximately its old line of frontage. If this were done he urged the sandbanks that had formed on the town side of the river would be dispersed cross currents stopped, and another length of river with deep water would be made wallable for the use of shipping. The new line of frontage involved the removal of a projection known as Mower's Point on the south bank of the river and he preferred the removal of this projection to an alternative scheme for strengthening the Point and the ground behind so as to prevent the river cutting its was through continuous line of permeable walling along the Southern bank similar in construction to that adopted on the large American rivers was advocated the length of the wall to be about 14 000 feet the average depth of water along the line being about 25 fect at low

water ordinary spring tides. Such in brief were the proposals finally submitted in 1903, and which six years later received the sanction of the Government of India.

Membrile however a large number of minor improvements have been carried out and the Port Irust since its constitution has been by no means idle. In connexion vith vorks completed vithin the past few years the Port Irust obtained sanction towards the end of 1907 to notify their right to prohibit the Linding or shipping of merchandise from or for sea going vessels except at their Jetties within specified limits subject to special exemption. Against this action of the Port Trust the Chamber of Commerce protested and also by owners and occupiers of land on the foreshore. A Committee of Enquiry is now engaged in investigating the questions at assue over foreshore rights.





HIS EXCELLENCY SIR ARTHUR LAWLEY, KCM.G, GCIE,

Governor of Madras

Ampthil in the Governorship of the Madras Presidency in 1906, was born in November 1860, and is the fourth son of the 2nd Baron Wenlock The third Lord Wenlock and present holder of the title is the eldest brother of Sir Arthur Lawley, and was Governor of Madras from 1891 to 1896 The heir-presumptive to the title is Colonel the Hon Richard Thompson Lawley, c B, brother of the present Governor of Madras, who was born in 1856, and another brother, born in 1857, the Rev Hon Algernon George Lawley, MA, is a Prebendary in St Paul's Cathedral, London, and Commissary for the Bishop of Pretoria and the Archbishop of Brisbane

Sir Arthur Lawley joined the 10th Hussars at Lucknow in 1882 He served with that Regiment in the Suakin Campaign, 1884, but retired with the rank of Captain in 1892 to become Private Secretary to his uncle, the Duke of Westminster, a post which he held In 1896, he accompanied Earl Grey (now Governor-General of Canada) to Rhodesia, and in 1893 he was appointed Administrator of Matabeleland, under the British South Africa Company, at a time when the political and industrial development of Southern Rhodesia was proceeding apace Then came the South African War of 1899-1902, when the threatened Boer irruptions into Rhodesia for a time stopped the flood of development During this stormy period, Sir Ar thur continued at his post, and the loyalty and steadiness of the natives of the districts of Matabeleland throughout the Transvaal war was one of the remarkable features of the campaign At the end of 1900 when the brunt of the fighting was over, Sir Arthur Lawley was appointed Governor of Western Australia, a post which he held for one year only (1901-1902), being recalled to South Africa, as Lieutenant-Governor of the Transvaal, as soon as the terms of surrender were signed

The Colony was at that time in a condition of absolute chaos. The restoration of the people to their homes, the putting together of the whole of the machinery of Government, the organization of every department of the Civil Service, the revival of the Agricultural and Mining Industries, were some of the problems to be faced. The assumption, moreover, by the Transvaal—a colony of only 300 000 white people—of the responsibility to pay the interest on the guaranteed loan of 35 millions was a heavy burden. One of the questions of the hour was that of the supply of unskilled labour for the mines. A thoroughly representative commission was appointed to investigate the question, it was shown conclusively, and after the most ex-

haustive enquiry, that the South African labour market was quite inadequate to meet the demands for labour, whether in the mines or on the farms new Lieutenant-Governor thereupon became a strong advocate for the importation of Chinese labour was convinced that the question of the development of the mining industry was a tremendous issue, not limited to the shareholders in London, men on the Rand, or capitalists, but a factor in the wealth of the world, and that the development of the industry depended upon the solution of the labour problem Speaking in December 1903, however, he declared that legislation for the importation of labour would only be introduced if the Council were satisfied that it was essential in the interests of the country, and was in accordance with the wishes of the people is now a matter of history that the importation of Chinese labour was agreed upon, despite agitation The Anglo-Chinese Labour against the measure Convention was signed in May 1904, and its terms were more liberal than anything previously offered to the Chinese A large supply of the best class of labour was immediately available, and the first batch of labourers left Hong-Kong for Durban on the 25th May of the same year There is no need to trace the subsequent history of the Chinese labour question in the Transveal, nor to do more than refer to the plausible catch-cry which it furnished to the Radicals at the last General Election Suffice it to say that up to the day of his departure from the Transvaal to take up his appointment in Madras, Sir Arthur Lawley defended the importation of Chinese labourers and pointed to the success that had attended their work

On the eve of his departure, Sir Arthur Lawley, speaking in Johannesburg on the native question, expressed the view that the racial was the only question which then darkened the future of South Africa He characterised the raising of the natives, immediately, to the level of the whites, as an acrobatic feat of evolution of which humanity was incapable. He endeavoured to impress on future politicians the seriousness of this question, and in conclusion he said—'The natives are an element for good if they are moulded aright, but if not, they are a potential menace to the whole of South Africa. See to the question, for it is the greatest problem you have of face"

Sir Arthur Lawley was appointed Governor of Madras in November 1905, while still holding office in the Transvaal, and the appointment was recognised as a fitting tribute to the strenuous work he had accom-



His Fxcellency Sir ARTHUR LAWLEY, KCMG, GCIE,
Governor of Madras

plished in South Africa His departure was felt by the Colony as a keen personal loss, and eulogistic references were made to the departing Lieutenant Governor at the Inter Colonial Council by I ord Selborne, the High Commissioner, and Sir Richard Solomon on behalf of the Government, and by Sir George Farrar on behalf of the unofficial members Sir Arthur left the Transvaal for England on the 5th December 1905, and at a citizens' farewell he made an eloquent and earnest appeal for unity and co operation between all sections of the community General Botha, who was present, said that he shared the general regret at Sir Arthur's departure, and gave an assurance that he was taking the message to heart

Sir Arthur Lawley arrived in Madras on the 28th March 1906, and assumed charge of the Administra tion from the Hon Mr Gabriel Stokes, Senior Member of Council, who had been officiating as Governor during the interval between the departure of Lord Ampthill and the arrival of the new Governor In the course of the three years that have since elapsed, Sir Arthur Lawley has shown himself a sympathetic Governor, with a determination to see things for him-He has always displayed an earnest desire to make himself acquainted at first hand with the require ments of every district he has visited, and his tours have formed a feature of his administration. Of the legislative measures passed during the last two years the most important has been the Madras Estates Land Bill, which aroused the resentment of the landholders, and was made the subject of questions in Parliament Legislation in this matter was not hurried, and the ze mindars were given full opportunity to represent their views in the Madras Legislative Council Their inter ests were carefully considered at every stage and the Bill was passed in February 1908. In educational matters, Sir Arthur Lawley has been content to further develop the educational reforms initiated by his immediate predecessor, more particularly with regard to female education, and the quinquennial report on education shows that during this period many reforms were carried out, as the result, partly, of natural expansion of admin strative progress, and, partly, of recommendations made by the Educational Confer-There has recently been a marked activity in trade, accompanying an enhancement in the value of commodities, and generally speaking, the past three years have been prosperous years for the Presidency, marred only by the disastrous commercial failure, which carried distress to many and absolute ruin to a A most deplorable feature of recent years has been the increase of racial animosity, and the unrest which originated in Bengal has spread to Madras, in common with other parts of the country The people more particularly the student and middle and lower classes, have on some occasions shown themselves hos tile to Europeans and disturbances have of late taken place in various parts of the Presidency, but have been instantly quelled In 1907 the Government found it necessary to take disciplinary action at the Rajah. mundry College, in consequence of the riotous and insubordinate behaviour of the students, following on the visit of Babu Bipin Chunder Pal in April 1907

Personally, Sir Arthur Lawley is an optimist of the best sort, with a great admiration for the work that Great Britain has carried out in India, and an earnest desire to play his part in carrying on that work. He would be a good friend to the people and would aid their legitimate desires in every way, but there are limits to the patience of even the most progressive ruler, and some events in Madras are not at all calculated to forward the cause of reform

Sir Arthur Lawley was married in 1885 to Annie Allen, daughter of Sir Edward Cunard, 2nd Baronet He was created KCMG in 1901, and was made a GCIE in 1906





The Right Hon ARTHUR OLIVER VILLIERS RUSSELL, BARON AMPTHILL, GCSI, GCIE., Ex Governor of Madras

THE RIGHT HON ARTHUR OLIVER VILLIERS RUSSILE,

BARON AMPHHILL GOST GOIL,

Ly-Governor of Madris



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may be tried bid to the followers of William the Conqueror, and in succeeding centurns they produced many men of distinguished influence including William Ford Jours II Ford John Russell (whose name is indissolubly associated with the famous Reform Bills and Lord Odo The Russells Russell Ford Ampthill's father have served their country, with credit in the State in diplomics, and in the Army and Navy and the subject of this short memoir has already given evidence of abilities which should lead Born it Rome in to even higher distinction 1869. his schooling begin it I ton where he showed in ipitude for study winning the Prince Consort's prize for Liench and German, he was ilso elected president of the School Debiting Society, and was explain of the Boats for two vens-in unusual distinction He curred his tiste for book, and athletics to Oxford, where he rowed for three veirs in the "A irsity Light," and was president of the Union Debating Society, a much coveted honour, is this society has been the cradle of many of the best Linglish public speakers To have been at the same time president of the University Boat Club and of the Union is an honour which has only follen to Lord Ampthill he became Private Secretary to Mr. Chamberlain, Secretary of State for the Colonies, which post he held until called to Madras in September 1900 these live years some of the most important occurrences in modern British history took place, including the Boer Wir, Austrilian Lederation, the Venezuelin Crisis and the Jimeson Rud these furnished a variety of political circumstances

that are rarely compressed into so short a period and these events alone furnished a training of no mean order. In 1898 His Lordship attended the International Conference on the Sugar Question at brussels as British Delegate.

On his arry d in India I ord Ampthill had dready formed liabits of systematic and strenuous work which prompted him to take a very thorough interest in his new duties this, along with his Fnowledge of officerd administration him to dispose satisfactorily and completely of in exceptional amount of work The habit of thoroughness has done more than this at gained him the confidence of the people who learned to look on him is a benevolent friend rather than in official idversity. His intercourse with the people extended for beyond his official duties tendering him a much-sought for and honoured guest it every important social assembly. Of sports of all kinds he is an aident and accomplished patron Honority Colonel of the Midirs Volunteers, he fulfits his duties like a man who enjoys them, and is cleiding figure in the Widris and Ooty Hunts he has done much to enlarge then membership Cricket club, and athletic associations find him a generous supporter, and his hospitality is impartiilly extended to every class-from the titled world traveller to school children. His Excellency is a Lellow of the Royal Geographical Society, Provincial Grand Master of Treemason for Bedfordshire, and Deputy Grand Master for Madras

It is not surprising that so popular and able a man should have been chosen to act for the Vicerov during the temporary absence of Lord Curzon in England. This distinction has fallen only twice to the Governors of Madrus,—to Sir William Denison in 1863 and to Lord Napier in 1872.



The Hon'ble Sir EDWARD NORMAN BAKER, KCSI,
Lieutenant Governor of Bengal

THE HONOURABLE SIR EDWARD NORMAN BAKER, KC.SI.,

Lieutenant-Governor of Bengal

IR EDWARD NORMAN BAKER, KCSI, who was appointed Lieutenant-Governor of Bengal in June, 1908, is the son of the late Arthur Baker, and was born on the 23rd March, 1857 He was educated at Christ's College, Finchley, and passed into the Indian Civil Service in 1876, arriving in India on the 15th November, 1878 He was posted to Bengal, where he served the usual term as Joint Magistrate and Assistant Collector in various districts. In May, 1882, he became Under-Secretary to the Government of Bengal in the Financial Department. Three years later he acted as Under-Secretary to the Government of India, Finance and Commerce Department.

After four years as a Deputy Commissioner and three years as Deputy Secretary to the Government of India (Finance and Commerce), he put in some time as a District Magistrate until he was appointed Collector of Customs at Calcutta. In this capacity he was brought into intimate touch with the commercial interests of the country, and was afforded an excellent opportunity of studying the vast and ever-increasing trade of Bengal. Here he gained a first-hand acquaintance with the peculiar conditions and commercial problems which confront the Government of Bengal, and a thorough knowledge of the requirements of the trade and commerce of

the province

He next filled the post of Financial Secretary to the Bengal Government, and, amidst a storm of adverse criticism from a noisy section of the press, it fell to his lot to pilot the Calcutta Municipal Act of 1899 through the Bengal Legislative Council This Act, which was initiated by the late Sir Alexander Mackenzie in 1898, aroused the antagonism of those who maintained that the time was ripe for granting to the natives of this province the fullest measure of local self-government. In the opposition there was displayed a good deal of personal animosity against Sir Alexander Mackenzie himself, owing to a certain speech made at Entally in which he had not hesitated to expose the shortcomings of the Native Municipal Commissioners And as it fell to the lot of the Financial Secretary of the Bengal Government to steer this particular measure through the Bengal Legislative Council, he incurred a full measure of the opprobrium that had been heaped so unsparingly upon his former Chief-who had by that time left India

The Hon'ble Mr Baker, who had been created a CSI in May 1900, filled the post of Financial Secretary to the Government of India, until Janu-

ary 1905, when he became the Financial Member of the Viceregal Council in succession to Sir E F Law, κ C M G , κ C S I In this appointment his great abilities found full scope, and although some of his financial measures—more especially his policy with regard to the use of the gold standard reserve—found strenuous opponents, his control of the finances of the country was, on the whole, eminently successful

For three years it was his good fortune to submit Budgets in which the actual surpluses exceeded the estimates, but owing to the famine conditions which prevailed throughout the North-Western parts of India in 1906, his final Budget was not so satisfactory, and even the nominal surplus was reduced to less than a third of the amount that had been anticipated. The period covered by the Hon'ble Mr Baker's Budgets marked the introduction of a revised system of Financial Settlements, by which it was determined to assign to the local Governments more permanent shares in the divisible revenues raised in their territories, while the recent division of Bengal further necessitated fresh settlements with the new Provinces thereby constituted

Other features that marked the period of the Hon'ble Mr Baker's financial control were a further reduction of taxation, especially in the rate of the Salt tax the remission of the famine cesses imposed in Northern India in 1877-78, liberal grants made to local Governments for police, education, and agricultural development subventions to local boards and the abolition of cesses levied for the payment of village officials, and for the maintenance of the District postal system, now transferred to the Imperial Postal Service Important changes were also introduced into the system of accounts

In the last Budget framed by the Hon'ble Mr Baker the dominant factor was famine, and, the financial position being what it was, the Financial Member was unable to recommend any remissions of taxation, or to commit the Government to any schemes involving a large outlay Money, however, had to be found for the scheme of Police Reform, outlined by Sir Andrew Fraser's Commission, for which twelve lakhs of rupees were allotted, and also for the advancement of Sanitation, for which thirty lakhs of rupees were budgetted But, following on three prosperity Budgets, the Hon'ble Mr Baker's fourth and last Financial Statement was but commonplace, owing to the adverse conditions under which it was framed

It was notified on the 1st June, 1908, that His Majesty the King-Emperor had approved the appointment of the Hon'ble Mr E N Baker,

Member of the Governor-General's Financial Council, to be Lieutenant-Governor of Bengal in succession to the Hon'ble Sir Andrew Fraser, whose term of office would expire in the following Novem The selection had been generally anticipated for some time previously, and there was no difference of opinion in official circles as to the fact that the best possible man had been chosen for this difficult The Knight Commandership of the Star of India was bestowed in due course, and after a period of furlough, Sir Edward Baker returned to India at the end of November, and assumed office as Lieutenant-Governor of Bengal on the 30th November, 1908

The Hon Mr Baker had long been acknowledged as the most capable member of the Government of India, and his reputation was enhanced by his conduct of the financial affairs of the country, and by his shrewdness, quickness and firm grasp of economic principles displayed in his speeches in the Viceregal Legislative Council His appointment as Lieutenant-Governor of Bengal was hailed with satisfaction on all hands—the Native papers for once being in accord with their Anglo-Indian brethren in welcoming the new Ruler Sir Edward Baker has, however, already shown that, although inclined to sympathise with and to give support to reasonable aspirations on the part of the educated classes, he will not court popularity by tolerating anything remotely approaching sedition. He took up the rems of Government in Bengal at a critical juncture, but although his knowledge of the conditions and needs of the province are unquestionable, as also is the fact that he has learned to appreciate some of the real requirements of the country whose finances he has administered, his good intentions may be frustrated, and his eminent qualifications may be neutralised, by the racial problems with which he is confronted, and the political confusion that prevails

Recognising the changes the Legislative Councils are about to undergo, Sir Edward Baker has, with characteristic promptitude, begun to train the Bengal Legislative Council for their work and into the Budget discussions at the beginning of April, 1909, he imported some of the atmosphere of reform. He is evidently of opinion that the legislators of Bengalmore particularly the native element in the Councilmust learn something of the discipline of a Parlia mentary Chamber and of Western ideas of the They must be said, "accustom value of time themselves to the greater regularity and stricter attention the new constitution vill entail," and he further implied that they could indulge themselves no longer in the pleasant pastime of re-arranging the whole fabric of society and Government at each and every sitting of the Council While preaching a lesson of the subject of relevancy, the lieutenant-Governor was careful to add that the primary object of the reforms is to increase, and not contract, the opportunities for public discussion There will, as he pointed out be opportunities that have never before existed for making debates, proposing resolutions and isking supplementary questions. In these altered conditions it is obvious that the length of the Council sittings will be greatly prolonged, and it is also certain that the preparation of work for the Council will occupy double or treble the time it does at present. In view of these facts it is interesting to note that Sir Edward Baker looks upon the creation of an Executive Council for Bengal as the natural and appropriate solution of these difficulties and this experiment, which has already received the sanction of the Secretary of State for India, confirmed by the proceedings in both Houses of Parliament, will shortly be put on its trial in Bengal





The Honourable Sir HERBERT THIRKELL WHITE, KCIE, ICS, Lieutenant Governor of Burma

THE HONOURABLE SIR HERBERT THIRKELL WHITL, KCIE, ICS,

Lieutenant-Governor of Burma

HERBERT HIRKELL WHILL Lieutenant Governor of Burma vas born and is the son of Richard White He was educated at Dulvich and it Esq Oxford, where he guned i Brasenose College He entered the Indian Civil Service Scholarship and the whole of his period of service has been passed in Burma He served in various districts of I over Burma in the several capacities in which the junior members of the Service gain their experience, and in 1897 he went as Com missioner with the Burma-China Boundary Commission It was at this time that the Province as a division of the Indian Empire was first administered by a Lieutenant-Governor with a Legislative Council and on the establishment, just three years later of a Chief Court for the Province, the Hon Mr White was appointed Chief Judge In I ower Burma the Chief Court occupies the position of a High Court for the purposes of both Civil and Criminal Justice, and it discharges the functions previously performed by the Recorder of Rangoon, the Judic al Commissioner of Lower Buima and a Special Court in which both these officials sat together sometimes along with a third Judge

In 1903 the Hon ble Mr Justice White was created a KCIE in recognition of his public scivices, and in 1905 he became Lieutenant-Governor of Burma in succession to Sir Hugh Shakespear Barnes, kcsi

Of the progress made in the Province under the administration of Sir Herbert Thirkell White, some account is given elsewhere. The difficulties with which capital and labour have had to contend in the development of the Province, owing to the want of

communications have long been a standing gravance, and there had for long been a lack of enterprise in riders extension and road making. This is being remedied and Sir II I White has shown that he is fully thre to the requirements of the Province in these A large amount of attention has been bestoyed on the improvement of the Port of Rangoon and the Government of India in May 1999, sanctioned the vhole scheme of the Ringoon River training and work on this ammense undertaking is now in progress In many other directions the Lieutenant-Governor has been active in promoting the interests of the Province, and he has presented a friendly if critical ittitude towards the reforms that are about to be introduced, and the enlargement of the Councils With regard to this latter he has practically pledged himself to see that the trades of Burma shall be adequately represented on the enlarged Councils through the Rangoon Trades Association

In matters of a more personal nature, we may mention the influence Sir H. T. White has gained over certain of the semi-barbarous and sem - independent States. By the Shan Chiefs he will be held in grateful remembrance. Not only has he reduced the amount of their annual tributes for the next ten years but he has been active in promoting education in these remote and wild regions, and he is using his influence to push on the general scheme of radiual extension by which the Shans will get the benefits of a radiual through their country.

In 1877 Sir Herbert Thirkell White married Fannie Sophia drughter of Captain William Hawes, IN, by whom he has had two sons and two daughters



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THE HONOURABLE MR R H CRADDOCK, CSI., ICS,

Chief Commissioner, Central Provinces

R REGINALD HENRY CRADDOCK, CST tes Chief Commissioner Central Provinces Joined the service on 12th September 1884 His father was a Surgeon-Wajor in the Bengal Medical Service Mr Craddock vas educated at Wellington College and at Meble College Oxford He married in 1888 the

daughter coungest of General H R св Пс Browne. served in various districts for short periods until 1888, then he was posted to Nagpur as Assistant to Sir Bampfylde (then Mr) Iuller This commenced Mr Craddock s long connection with \agpur with which he has been more particularly identified by his work as Settlement Officer (1890-1895) Mr Craddock was the most distinguished of the various officerv ho oved their training to Sir Bampfylde Fuller, and his report on the settlement of the Nagpur District is vell known for its clear exposition of the principles of the Central Provinces system of land assessment, as evolved by Mr Fuller, as well is for its intimate acquaintance with rural economics Mr Craddock remained at Nagpur in the capacity of 2nd Secretary, Commissioner of Settlements, **Tamine** Secretary, and Chief Secretary, from 1895 till 1900

during which period he took a considerable share in the various amendments of the Agrarian law of the province, and in the measures required to meet the two serious famines of 1896-97 and 1899-00, as well as in those so successfully adopted to repair their ravages, and assist in the restoration of prosperity after their close

In all this, his knowledge of the relations of landlord

and tenant, and of the agricultural economy of the people was of much service to successive Chief Commissioners. As Commissioner of the Nagpur Division, a post which he held from 1901 to 1907. Ar Craddock took an active part in the development of the city of Nagpur and there are few of the recent extensive schemes for its improvement, whether Government

or Municipal that do not bear the impress of his hand He had alvays realised the importance to the growing resources of the Central Provinces of a well considered and active policy of raily as construction and the ruluay companies found in him a sound adviser and ready supporter. It was in the Nagpur Division that the main work of the newly constituted department of Irrigation lay and it is to Mr Craddock's support, and to his experience of local agricultural conditions that much of the success already attrined by the irrigation policy of the Central Proxince Government is

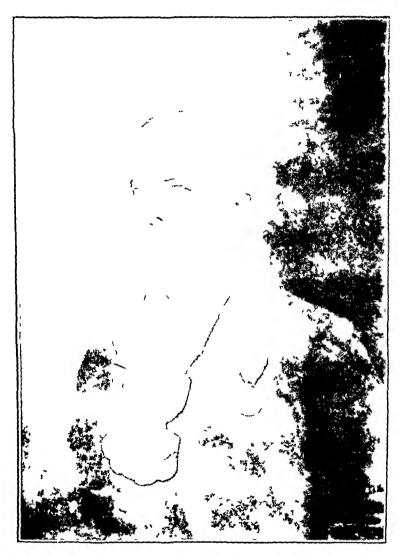
In 1903 Vi Craddock with the CSI

He was appointed Chief Commissioner in 1907, in spite of the fact that he had never filled any post outside the province and the period during which he has held the appointment has been of a nature fully to test his know-



The Honourible Mr. R. H. CRADDOCK CS4 1CS Chief Commissioner Central Provinces

ledge of and sympathy with the people, while his constant study of industrial and agricultural conditions has helped him greatly in dealing with the various problems which the rapid development of the province and the increase in the wealth and civilization of its inhabitants have offered for the solution of Government



The Honourable Sir IASH SCOTT for at I in Chief Justic of Bombay

veire liter griduated as MA. On leaving College he became pupil first to Mr. Jusper Peck, and subsequently to Mr. (now Sir) Gorell Burnes, and Mr. William Latham K.C. As a member of the Inner Temple hery as ealled to the Bar in January 1884, and in the following year

the Bombay High Court from December 1005 to October 1906 at the end of this period reverting to his post as Advocate General. In April 1908 he was definitely rused to the Bench as Chief Justice of Bombay and was knighted in 1909.

THE HONOURABLE SIR CHARLES EDMUND FOX, KT, Bar -at-Law,

Chief Judge of the Chief Court of Lower Burma

R CHARLES EDMUND FON KT, Bu-at-Law Chief Judge of the Chief Court of Lower Burma, was born in February 1854 at St John's Newfoundland and educated at Prior Park College Buth

Officiating Government Advocate Burma icturned to Cilcutti. In 1884 he was ig in appointed officiating Government Advocate Burma and in March 1880 was contained in the appointment. He filled this litter position for fourteen years until in April 1900.



The Honourable Sir CHARLES LDMUND FOX, KT, bir it Law, Chief Judge of the Chief Court of Lower Burmi

He was called to the Bar in January 1877 he was appointed to the Chief Court Lower Burma an Advocate of the High Court of Fort William in Bengal, Calcutta In 1879-80 he was appointed of Knighthood on the 1st January 1907

THE RT REV HENRY WHITHHEAD, DD, BISHOP OF MADRAS

HE RT RLV HENRY WHITTHEND DD, now Bishop of Madras was born in 1853 and was educated at Frinity College, Oxford where the gained a Fellowship In 1884 he was uppointed to the post of Principal of Bishop's College, Calcutta an appointment that was exentually to have the greatest influence on the work of the Oxford Mission in Bengal with which Mission much of his early work in this country was associated

Indeed, it had been the intention of the Rev Henry White-head, when he first came out to India to offer himself for work with the Oxford Mission, but for the time being, the call to the management of Bishop's College appeared to be one that he could not put aside What at first had seemed a hindrance to his hopes was in the end a means to their realization, for then the proposal was made that he should become Su perior of the Oxford Mission, the Society for the Propagation of the Gospel, under whom he was working raised no objection to his retaining the post of Principal of the College as well And thus, without being united by any formal act the works which had grown up round the Oxford Mission, and those which belonged to the Society for the Propagation of the Gospel in Calcutta and the immediate neighbourhood, became closely connected, and were directed practically

by one head

Is Mr Whitchead had long had the confidence of the members of the Mission it was with joy that they welcomed him as their head but in accordance with the constitution he could not formally join the Brotherhood of the Epiphany until after a years probation so that the appointment had for the time to be provisional the public and final installation being deferred till 1891. From this time until 1899, when he became Bishop of Midris. Mr. Whitchead's work was closely

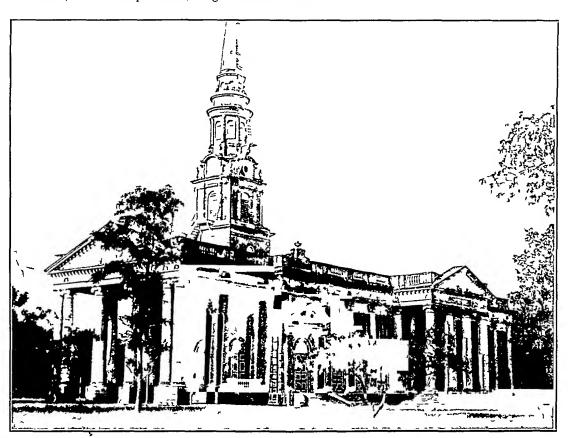
The Rt Rev HENRY WHITEHFAD, DD,
Bishop of Madras

identified with that of the Oxford Mission which carras on its libours munly in the interests of the students of this city. He was strongly in fivour of the hostel system which, he maintained, gave the Mission i liverage and i means of influence imong the students which was of the utmost value. The first hostel in connection with the Brotherhood v 15 opened in 1891. It was felt to be a venture, as it was a very strong step for a Hindu to live in the same house with 1 European, and a still stronger step to live under the immediate influence of a Christian Mission However, all doubts were quickly removed when about forty applications were made for the ten rooms that were avulable, and the hostel, which had been started as a venture of faith, became an established and perma nent fact. The aim was to get thorough ly in touch with the daily life of the students, not only

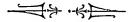
to address them in lectures and meet them on public occasions, or pay them periodical visits, but to gather a certain number in intimate intercourse, and try to make the influence of the Mission felt upon all the little details of their ordinary life. Since it was started in 1880 the Oxford Mission has been a vital force in Bengal. It gained in influence in the years that Mr Whitehead was its directing genius, but we gather that it was uphill and unthankful work, and that the results were disappointing but not sufficiently so to discourage the brave workers in the mission field

In 1899 Mr Whitehead became Bishop of Midras, and the venue of his activities was transferred to the Southern Presidency, where, with a large diocese under his control, and a comparatively large Christian

population, steeped for the most part in abject poverty, he has carried on his labours with undiminished energy. In the northern part of his diocese, amongst the Telugu population, there is at the present time something like a mass movement towards Christianity, and the Bishop is making strenuous efforts to provide the necessary teachers. Under his encouragement, also, the Indian Christians of Tinnevelli have started a wholly indigenous mission in the same (Tolugu) country, which is meeting with wonderful success. At Brigalore a Brotherhood has been started on similar lines to the Oxford Mission and there are the beginnings of another at Madras. The Bishop is the heart and soul of all the work in his vast diocese.



MADRAS CATHEDRAI



THE REERIN EDWIN JAMES PAINER MA.

Bishop of Bombay

the 19th April 1995 the amonate vent vismide that His Maports the Kin Trajector on the recommendation of the Scritters of State for India had been pleased to poomt the Rev. I dv in Joines Palmer way Tello in t Lutor of Balliol College Oxford to be Pishop of London The Rt Rev I J Palmer vho v is born in 1814

is the only son of the late Venible Ldwin Pilmer Archdescon of ON ford who married Miss Henrietti Riddell and vho vis the councest brother of the first Lord Selborne Lord Chancellor of England Mr Palmei vas educated at Winchester College and at Bill ol College, Oxford He was Scholar it Winchester and he had a distinguished career it Balliol College Oxford where he won wi open scholarship In 1880 he vas awarded the Craven Scholarship and a first class in Classical Moderations and he graduated in 1891 vith i first class in Lit Hum In the same veur he was elected to a Fellowship at Balliol After spending a term at the University of Bonn he returned to Oxford and worked as Fellow and Tutor of Balliol College till he was appointed Bishop

of Bombay He was ordained Deacon in 1806 and then became Chaplain of his College and was ordained Priest in 1898 Bishop Ridding under a hom he was educated at Winchester, made him his Examining Chaplain, and the close relations between the two men may be gathered from Lady Laura Ridding's

recent life of he harbon! In too; reaches as Smorthwar of the Coverity and from 1991 to 1905 has a Charman of the Junio Clerk Missoners As mentioned cornected with the Society for the Proposition of he torpel. At the time of I sop I if thent to the B begins of Bentley the Rex I I Pilmer vis Iximom Chiplen to the Pr hop

of Southearl, ad h va conscrited Bishep of Romb v on View on day 100° m South v rl Cith ard

teller tual Teems s and his strong in terest in social que tons from a Christian Social point of the Alis apparent from the s corons part In tool in the Pan Inch in Concress shortly before his departure from Inclind for Bom his His attach ment to the cause of Missions is beyond auestion and they vers ago in this connection he paid a visit to South Mrici vhere his cousin Ford Sclis High Commissioner Being a Liberal and a Moderate High Churchman he probably com mended himself to Morles 15 being likely to avoid the policy of the Lite Bishop Pvm whom he succeeded and his

P shop Palm r is en molereit m borne Lord The Rt Rev IDWIN JAMIS PAIMIK MA, Lishop of Bomb is

> appronument was a reversion to a type of Bishop at present well represented in the Indian Episcopate, which counts imong its members who are former Oxford tutors, the Bishop of Calcutta and the Bishop of Madras

THE RT REVD EYRE CHATTERTON, DD., FRGS,

Bishop of Nagpur

HE RT REVD EYRE CHATTERTON, DD

FRGS Bishop of Nagpur Son of the late
A T Chatterton, Esq, and nephew of the
Rt Hon Hedges Eyre Chatterton, Vice
Chancellor of Ireland and on the distaff side
nephew of the late Sir Eyre Massey Shaw,

K C B Born at Ireland, in the vear 1863 and educated a t Haileybury College and Dublin University, where he took honours and in classics literature, was Senior Moderator and Gold Medallist Ethics and Logic, First Theo logical Exhibitioner He took orders, being ordained by Bishop Lightfoot in 1887 From this year to 1891 he held the curacy of Holy Trinity, Stocktonon-Tees In the latter year he came to India as the head of the Dublin University Mission to Chota \agpur He returned to England and was Senior Cu rate in the Parish of Richmond, Surrey, 1901-02, but subsequently came out to India again in his present capacity of Bishop of Nagpur He has published the 'Story of Fifty Years Mission Work Chota Nagpur'' and various ma gazine articles

The Diocese of Nagpur is a most important one, extending for over a thousand miles in length by six or seven hundred in breadth. It contains the Central Provinces and the Berars and the Native States of Central India and Rajputana. It is coterminous with the Dioceses of Calcutta, Madras, Bombay, Lucknow and Lahore. Scattered about this huge expanse of

country

England,

ıstered

some

clergy

Christians

is but a handful

of Christians of

the Church of

fifteen thousand

in number min

jority of these

Englishmen prin-

cipally soldiers There are also Church of Eng-

land Missionaries about 15 clergy working among the Indian popu-

lation in different

centres, and the

Bishop's duties

in directing the

whole of the

work and touring

country are not light The Bishop

has been a noted

athlete His re-

creations are Tennis, in which he was the holder

of the University

Championship for three years, and of several other

championships, including that of

the English Midland Counties

Golf, Riding, Cy-

cling and Music

throughout

vast tract

to

about

thirty

are

The ma-



The Rt Revd EYRE CHATTERTON DD FRCS
Bishop of Nagpui

THE MOST REVEREND DR JOSEPH COLGAN, D.D.

Roman Catholic Archbishop of Madras

HE MOST REVEREND DR JOSEPH COLGAN, D.D., Aichbishop of Madras, was born at Donore, County Westmeath, Ircland, on the 1st April 1824 his parents being extensive land-holders in that county. He was educated at the Diocesan Seminary, Navan and at the Royal College, May nooth He arrived at Wadras

on the 4th February 1844, one of a band of priests, clerical students, monks and nuns, who had come out to labour in the East and had made the passage round the Cape in the sailing-ship I adv Flora Of this devoted band of workers, His Grace is now the sole survivor His first appointment in Madras was as Principal of the old St Mary's Seminary, and two years later, on the 5th October, 1846, he was ordained a priest of the Vicariate Apostolic of Madras

From the day of his ordination as priest Dr Colgan has laboured with zeal in the cause of religion, morality, and Catholic education, and under his fostering care, colleges and schools, convents and orphanages have been sustained and promoted He rendered

valuable service to Government as Military Chaplain to the troops in Poonamallee, Pallavarum, St Thomas' Mount, and Fort St George, from 1862 to 1882 up to the date of his consecration as Bishop of Aureliopolis and Vicar-Apostolic of Madras It was by means of a house-tohouse visitation in 1865-66 that he collected

the necessary funds for the completion of the Church Francis Vavier in Popham's Broadway Midras and he likewise collected the money for the erection of the Boys' Orphanage buildings in the Cathedral precincts, and for the purchase of the Cathedraf organ In 1867 he paid a visit to his native land, and on his return to Madras in 1869 he was appointed

Vicar General by the first

The Most Revd Di JOSEPH COIGAN, DD. Archbishop of Madris

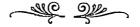
Lite Dr. Stephen Lennelly, it that time Bishop of Wadras Shortly after this he was made. Admin. istrator of the Victriate of Madris, during absence of the Bishop at the Vatican Council On the death of Dr Stephen Lennelly in 1880 Dr Colgan was re-appointed to the sime office, and two vears later he was nominated Vicar-Apostolic of Madras On the establishment in 1887 of the Hierarchy ın he was proclaimed the \rchbishop Midras, and in 1804 on the occasion of his Drimond Jubilee, His Grace having then completed the fiftieth year of service in India, he was nominated Assistant at the Pontifical Throne, by his late Holiness Pope Leo XIII It was two years after this, when

Dr Colgan was on his way to Rome, that the news of his death was received in Madras, to the great grief of his flock. Subsequently the report was found to be false, the mistake having been due to an error in the transmission of a telegram

While safeguarding and promoting Catholic interests, Dr Colgan has been prominent in the part he has tiken in all public movements having as their object the social well-being, relief, and amelioration of his fellow-citizens of whatever colour or creed The valuable and effective aid rendered by him as a member of the Executive Committee during the terrible famine in the Madras Presidency in 1877-78, earned the General Famine Committee, and thanks of the of the Governor of Madras As the guardian of Catholic higher education and Fellow of the Madras University, he was selected by the Supreme Government as a Member of the Educational Commission which sat in Calcutta in 1881 but the onerous duties of his office as Administrator of the Diocese of Madras prevented his attendance at these conclaves The Friend-in-Need Society, the Madras Catholic Indian Association, the Eurasian and Anglo-Indian Association, and the Society for the Prevention of Cruelty to Animals have all found in Dr Colgan a staunch and sympathetic supporter and patron During his regime, St Mary's Seminary has

been raised to the rank of a second-grade College, and the Presentation Convents have likewise been raised to the same status, while the Catholic schools, colleges, convents, and orphanages generally have reached a high standard, a result which His Grace attributes in a large measure to the zealous and self-sacrificing clergy and nuns, who have proved themselves indefatigable fellow-labourers and have aftorded him unquestioning Among the many useful institutions whose obedience interests he has done much to promote, may be mentioned the Madras Catholic Club, an institution for the moral improvement and recreation of the Catholic young men of Madras, which was founded by Dr Colgan This Club fulfils a very useful purpose in Madras, and has a very large membership not confined to Catholics only It possesses a library of upwards of 1,000 books Work of this kind, undertaken for the benefit of all sections of the community, Archbishop Colgan has always looked upon as an essential portion of his public duties

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The Houble Sir CHARITS STUART P17117 KCSI Resident at Hyderabad - The Hon Sir Charles Bayley was born on the 17th Wirch 1854 and is the son of the late Captin Diniel Bivley formerly of the list India Company's Bengal Civalry. He was educated at Harrow and Heidelberg Barrister-at-I aw, I incoln's Inn 1877 He was appointed to the Indian Civil Service after the eximinution of 1875 and irrived in India in December 1877 He served as Assistant Magistrate and Collector in Bengal till 1880 vhen he was appointed Assistant Secretary to the Chief Commissioner of Assam He then filled in succession the posts of Under-Secretury to the Government of Bengal, Officiating Registrar of the High Court Under-Secretary to the Government of India in the Revenue and Agricultural Departments and Assist int Commissioner of Amer He v is Political Agent in Bikiner from 1888 to 1804, when he officiated for a short time as Additional Private Secretary to the Viceroy Later on he became General Superintendent of operations for the sup-pression of Thuggi and Dacoity In 1900 he became officiating \gent to the Governor-General in Central India, and in 1901 he was confirmed in that appointment. He remained in Central India until the 1st March 1905, when he succeeded Sir D W K Barr, KCSI, as Resident at Hyderabad

On the 1st January 1903, the Hon Mr Bayley was created a Companion of the Star of India, and in the following year he took a prominent part in the ceremonials and festivities organized by His Highness the Nizam in honour of the visit of

their Koy d Highness's the Prince and Princess of Wales to Hyderabad. When in May 1908. Sir Lancelot Hare Leutenant Governor of Latern Bengal and As am was obliged to proceed on six months leave on medical certain ate the choice of the Government of India fell upon the Hon Mr Bayley to fill the act map pointment.

On the 26th June 1908, the Hon Mr. Bayley vis created a KCSI Hemarried in 1880, Strah Constance drughter of Major General V. I Campbell Indian Staff Corps

Surgeon General PERCY HUGH BLNSON, MB CM MACS Surgeon-General to the Government of Madris Born in London on February 1, 1852 and received his education at Shrewsbury School



Surgn Gent P II BINSON

and under entlished of trering it St. Partholone & Hoptal Iondos Hosen i ti-Lister Prize in mor peutic landony at this in titution in 1871, now is appointed Prosector of Arite is it the Royal Coll and Surrous the some year. On sist March 1871 to received his commission after tiking 4th plus in the ecopiti tive Amination for the Indian Medical Service On leaving Net lev he had the honour of being one of those specially recommended to the Government of India by the Screture of State. He rendered excellent services during the great famine in South India in the year 1576 for which he received the thanks of the Commissioner of Mysore During the Prince of Wales Visit to India General Benson had the honour of being medical officer in charge of His Royal Highness Cump in the Annumali Hills Until 1876 he was in medical charge of various native regiments in different parts of Madris when his services were placed at the disposal of the Government of India by whom he was employed in a civil expicity in charge of various July and as Residence Surgeon Bingilore After furlough in 1885 his services were placed it the disposal of the Mysore Government by whom he was appointed Superintendent Mysore Jul and Witern to Hospital and Chemical Prammer and Sandary Commissioner He received the rank of Lieuten int-Colonel in 1804 In 1896 he was appointed Senior Surgeon and ex-officio Similary Commissioner and Inspector-General of Prisons, Bangalore ist June 1903 to Lebruary 1904

his services were placed at the disposal of the Government of India for employment as officiating Inspector-General of Hospitals Burma, when he reverted to his former appointment From 10th April 1904, his services were temporarily placed at the disposal of His Ficellency the Commanderin-Chief in India for employment as Principal Medical Officer, Madras Brigade In October 1905, he was appointed to the same office with the Southern Brigade, Bangalore, and in the following year he received the appointment of officiating Surgeon-General with the Government of Madras He was granted the temporary rank of Surgeon-General from 30th April 1906, and he handed over on 3rd November of same year to Surgeon-General Browne and was appointed in succession Principal Medical Officer, Poona and Secunderabad Divisions On 1st April 1908, he received his present substantive rank aid appointment as Surgeon-General of Wadras General Benson has long been identified with Freemasonry He built the Masonic Lodge it Mysore, and has held the chair in the Craft and Mark degree He is a good sportsman and interested in Ricquets, Cricket and Golf

Mr JOHN BHORE, AMICI MRSANI, Sanitary Engineer to Mysore Government, Public Works Department Born at Bombay, educated at Bombay and Worthing, and R I F College, Coopers Hill, England On passing out of Coopers Hill in the year 1893, he vas apprenticed to Messrs J Westwood and Co, London, and to the Great Western Railway, England, for one year's practical train ng He preceded to India in 1804 and joined the Mysore State Department of Public Works in the same year. In July of that year he was appointed Assistant Engineer at Chikmagalur, being transferred in the following September in the same capacity to Koppa Range, Koppa In February 1895 he was appointed Offic ating Executive Engineer at Ch ckmagalur and in the following month returned to Koppa in that capacity In 1898 he was transferred to Shimoga where he officiated as Executive Engineer and later in the same year acted in the same capacity at Marikanave. In 1901 he "was transferred to Sixasamudiam as Assistant Engineer and in September of same year was appointed to officiate as Resident Engineer Cauvery Power Scheme Division at



Mr. John Bhold

the same centre. He sem and here till 1905 when he was appointed to the Palace Division Mysore He was sent on deput ition to England in 1903 for a period of two years to undergo a special training in Sanitury Engineering He was elected a member of the Royal San taix Institute I ondon 1900 He received the thanks of the Government of His Highness the Wah way i of Mysore in 1904 for work done in connection with the Cuvery Power Scheme where he acted as Personal Assistant to the Resident Engineer, ind for a short period towards the completion of the work as Officiating Resident Engineer Mi Bhore is a member of the Society of Aits I ondon He is a first class rifle shot, and was Captain of the shoot ing team at Coopers Hill He won the Battalion Prize at Churn Meeting England

SIR ARTHUR CHARLES FRAN-CIS HENRY MARIA BERNARD BLENNERHASSETT, Bart, BA, ICS, Deputy Commissioner, Jubbul-

pore, Central Provinces Son of the Rt Honourable Sir Rowland Blennerhassett, 4th Baronet, PC, of Churchtown and Blumerville Co, Born at Munich on April 14th, 1871 educated at Continental schools and at Balliol College, Oxford where he took his degree as BA Joined the Ind an Civil Service in the same year and arrived in India December 6th He was appointed Assistant Commissioner the Central Provinces and served at Nagpur, Wardha, Saugor and Damoh, on several occasions holding charge of the current duties of the office of Deputy Commis sioner After returning from furlough in 1899 he was posted as Assistant Commissioner to Jubbulpore, where he officiated as Deputy Commis Sioner in 1901 After officiating later in the same year is Political Igent, Chhattisgarh Feudatories, for i short term he was reposted to Jub bulpore From 1902 to 1904 he



Su 1 BIINNFIHASSITI, Bart

officiated for a period as Divisional and Sessions Judge, Jubbulpore Division, and as Deputy Commissioner at Jubbulpore and Seom On return from furlough in 1905 he served for a short time in the Yeotmal District, Berar, and then as Under-Secretary to the Chief Commissioner, C.P., at Vagpur In 1906 he was posted to Jubbulporas Deputy Commissioner and is

not serving there in that expects Sir Arthur Blenneth issett comes of an old Cumberl and Lumby taking their name from the township of Blennerhissett in that counts, where they had been seated for several centuces before they acquired estates in to Kerry in the regin of Oueen The both They represented Carlisle n nearly every Parliament from the regn of Richard II to Junes I and have since then in almost every generation represented a ther Kerry County or the Borough of In 1801 Sir Trake (Ird and) Arthur Blennerhassett marred Mary Truces only daughter of the late Biron Ludvig von Arctin of Hadenburg Bayara and has one son Marmaduke Usamir Henry Joseph, born in 1902

Mr HLRBERT JAMLS BRERT-10N Account int-General Burma was born at Bedford in 1853 and educated at Bedford Grammar School, where his grand other the late Doctor Brereton was Head Master. He came to India in the year 1872 and his first post was as Assistant Account int-General at



Mr H J BRIRFTON

Allahabad He has had a long and meritorious career, having filled every office in his Department and served in every province of India and Burma except Sind He has held the posts of Deputy Comp-

troller General and Deputy Auditor General He vic appointed Accountant-General for Burma in December 1907

Sir BIPIN KKISHNA BOSI Kt. Rai Bahadur WA 14 CAR trovernment Advocate Nappur Born at Calcutta January 20 1871 I directed at Presidency College Calcutta tools he do no of MA and BA in 1871 and 2872



Sir Britis Krisius C Bost Ar

respectively. He first commenced the practice of the legal profession at lubbulpore but in 1874 trins ferred his practice to Nuspin where he has been most successful as in Advocate In addition to his legal labours for Bepin has always been most liberal of his time ind energies for public objects He is Secretary of the Neill City High School, which position he has filled for more than thirty years, having first taken up the duties m 1876. He is also one of the founders of the Morris Memorial College and its governing Council He has done excellent work as a member of the Nagpur Municipality with which he his been connected since 11863. For two years he acted as Honorary Secretary to the Municipal Committee He has also been a member of the District Council of Nagpur since 1883 and a member of the Dufferin Committee, Central Provinces, since

lacks he excellence on ber of the Lange Council to of that year has my presson to 1966. 117) been Houseire Server of the Central Provide Peich of the fal in that table kelef fund In the try to be a second in the epiets He imported to hope at post is too eruneat. Advanto in Junius, 1888 fit of the over on of his election to member hoofth In or Coned n 1871 he re in 1 the up, butprominities SrP pris a win appointed tovernment. Advo ate id hold the participation during In room tion of he public erver le feet ved the Compar on hip or the Order of the Indian Empire in 1838 In 1997 H M th King Impror value could pleased to confer on him the honder of kns hthood

Mr. GIO. CUNNINGHAM BUCHANN MISSICE Chan man of the Board of Communications for the Port of Ramon is the san of the Life Goo. Buchanan CI, of Westman to grandson of the Life George Bachanas, in comment



Mr Geo C bechann

Scottish Civil Engineer of Painburgh and grandrephew of the famous Professor Faraday. He was born in London in 1865 and educated privately. He served is a pupil with the Chief Engineer of the River

Type Improvement Commissioners In the year 1886 Mr Buchanan left England, and for the next ten years was engaged in various prominent engineering works in Venezuela the Argentine Republic, Canada, Spain and other countries. In 1896 he returned to England and obtained the appointment of Chief Engineer to the Dundee Harbour and Docks on the River Tay, having been selected out of 83 candidates The post of Chairman of the Commissioners and Chief Engineer to the Port of Rangoon having been created by the Secretary of State for India in the year 1901 Mr Buchanan was offered and accepted the appointment and proceeded to Burma, arriving to take up his duties in April of the same year He was sent out with the express purpose of reorganising the Port The progress made by the Port in the last six years is sufficient evidence of his administrative and technical ability. During this period the Port Trust has profitably ex-pended 130 lakhs of rupees. Mr Buchanan has also taken an active interest in the municipal affairs of Rangoon and has been a member of the Municipal Committee almost He was largely since his arrival concerned in the remodelling of the drainage system of the town is one of the Administrators of the Victoria Memorial Park His membership of the Institution of Civil Engineers dates from 1899 he became an associate member in 1891

Mr FRANCIS EDWARD CUL-LING CARR, Acting Deputy Inspector-General of Police, Southern Range, Combatore Son of F C Carr Gomm, late 1 cs, and now a I P of Buckinghamshire 17th March 1858, and received his education at Malvern College and Exeter College, Oxford He came out to India in 1881, and in May 1886 joined the Indian Police He rose through the various grades, serving in several districts of the Madras Presidency, as Assistant to Government and as Assistant Inspector-General of Police In 1896, his services were placed at the disposal of the Government of India, Home Department, for employment as District Magistrate in Coorg, where he remained two years In March 1898, his services were lent to the Mysore State as Deputy Commissioner and District Magistrate of the Planting District of Kadur In 1900, he was transferred to the Kolar Mining District where he was employed in the same capacity, and also in charge of the Kolar Gold



Mi I I C CMP

lields In 1904 he was appointed Inspector-General of Police in Mysore, which appointment he held till he was appointed to his present position in 1908. Mr Carr is married to the eldest daughter of Sir James Thomson, kcir, who acted as Governor of Madras, and who has lately been appointed to the India Council.

Mr CHARLES RAITT CIEVE-I AND, CIE JP, ICS, on special duty, Central Provinces and Berar Son of the late Henry Cleveland, Fsq, Government Solicitor for Bombry Born at Bombry in the year 1866 Educated in England at Christ Church, Finchley, and Balliol College, Oxford Joined the Indian Civil Service, September 9, 1887, and arrived in India, November 28, of same year first post was as Supernumerary Assistant Collector at Raipur In 1889 he was posted to Bilaspur as Assistant Collector, and in 1890 appointed to officiate as Settlement Officer, Raipur He also acted in the same capacity at Nagpur In 1891 he was appointed to officiate as Deputy Commissioner and made substantive in this grade in 1897,

having served at Saugor, Nimar, Raipur and Nagpur He acted as Inspector-General of Police and Juls from 1900 to 1902, and in the latter year went on deputation to Simly in connection with the Police Commission In the following year he was invested with the Insignia of a Companion of the Indian Empire He was made substantive in his appointment of Inspector-General of Police, Central Provinces, in 1906 In December 1908 he returned from this appointment and is now on special duty. He received special mention in the report of the Chief Commissioner of the Central Provinces for 1907, in the following terms "The Chief Commissioner desires to acknowledge very specially the work done by the Inspector-General, Mr Cleveland, who has now held the appointment for eight years. His services have won the warm approval of successive Chief Commissioners, and his ability, zeal, and



Mr C R CIEVITAND

strong personality have been one of the chief factors in raising the morale of the police, and co-ordinating them from a number of district services into one force. The advance made in his time has been a very marked one, and the ground grined cannever again belost." In his youth Mr Cleveland was a keen athlete and a member of the Oxford University Football Team. He was selected for the Varsity. All England Team in

all the matches played in 1887 He threw the hammer for Oxford in the Inter Valsity sports of 1887

Major WILLIAM WESLEY CLEMESHA, MD, DPH INS, Deputy Sanitary Commissioner Bengal, was born in 1871 in Lancashire. England and educated at Ackworth School, and at York and at Owen's College Manchester where he took his professional degree He was appointed House Surgeon to the Royal Infirmary, Manchester in 1894 for six months, and then passed into the Indian Medical Service On arm al in India in 1896, he was posted to military duty for about nine months, when the plague scourge broke out in Bombay and he was appointed one of the Assistant Health Officers of that Port serving in that capacity for about eight months Major Clemesha's services, during 1897 and 1898, were divided between Poons and Simls in the former station on plague duty and as

Health Officer in the summer seat of the Imperial Government. In the cold weather of 1898-1899, he was igain placed on plugue duty in Bangalore in the Southern Presidency, which had also become infected with that dire disease and was transferred later in 1899 to Bengal, as Deputy Santary Commissioner, Metropolitan Circle, and Assistant Health Officer of the Port of Calcutt in Plague duties once more clumed him at Patha and Saran until the China War required his return to military duty for about eighteen months.

Major Clemesha was appointed in 1901 permanently to Bengal in which Presidency he has filled the office of Deputy Sanitary Commissioner Northern Bengal and Metropolitan Cucle, and officiating Sanitary Commissioner His permanent appointment is that of Deputy Sanitary Commissioner Metropolitan and Orissa Circle In March 1908 he was appointed officiating Sanitary Commissioner Madras

CENTRAL PROVINCLS BERAR POSTAL CIRCLE The administration of the Post Office of India is carried on by a Director-General, two Deputies, and four 1ssistants forming the Postal Secretariat, the Executive being represented by a Postmaster-General in charge of a Circle Until recently Creles were classed is Major and Minor, according to their size and importance but by small imating and redistributing the charges at his been found possible to abolish Minor Circles The list of these to disappear was the Central Provinces and Berar Postal Circle the photograph on this page represents the Head of the Circle and his staff of Divisional Officers Mr O'Grady, Postmaster General received his education in the care of the French Lithers of the Order of St Francis, he served in the field during the Afghan and Burma Campaigns and as Assistant Director-General of the Post Office



OFFICERS OF THE CENTRAL PROVINCES AND BERAR POSTAL CIRCLE

Mr DONALD WILLIAM GAR-DEN COWIE, MA (Bar-at-Law), ICS (Lieutenant Colonel, Southern Provinces Mounted Rifles), Inspector-General of Police, Madris Born in 1865 Educated at Charter-house (Scholar) and Balliol College, Oxford (Honours in Law) Joined the service in 1885 Served in the Madras Presidency as Revenue Officer and Magistrate, Deputy Registrar of the High Court, Assistant Secretary to Government, and in 1895 was appointed first sole Registrar of the High Court of Judicature at Madras

In 1898 he returned to administrative work as Collector and Magistrate, serving in the districts of the Nilgiris, Chingleput and Bellary,



Mr D W G COWIE

and in 1907 became Inspector-General of Police, Madras He is greatly interested in volunteering, with which he first became connected at Charterhouse In 1893 he joined the Madras Railway Volunteers, leaving that corps for the Madras Volunteer Guards in 1895 In 1905 he joined the Southern Provinces Mounted Rifles in which he now holds the rank of Lieut-Col

Mr FRANCIS COLOMB CRAW-FORD, District Superintendent of Railway Police, His Highness the Nizam's Dominions Born at Ashton-Keynes, Gloucestershire, England, September 9, 1862 Educated at King Edward VI School, Great Berkhamstead Hertfordshire Joined the service in the year 1883, his first appointment being at Sccunderabad, as Assistant Superintendent of Police Three years later he obtained the appointment of Superintendent, Railway Police, H H the Nizam's Dominions He was promoted to the 1st grade in 1802 In this year and the following he was placed in charge of the office of Assistant Superintendent of Police, Secunderabad, for short periods, in addition to his own duties In 1896 he held the post of Superintendent, Residency Bazaar Police, and Cantonment of Secunderabad, and officiated as Cantonment Magistrate, Secunderabad, in addition to his own duties, in the years 1902-03 He went on leave in 1907, and on his return reverted to his present position as District Superintendent of Police (Superintendent of Railway Police, H H the Nizam's Domimons) He draws the pay of Deputy Inspector of Police, Central Provinces Mr Crawford is a keen sportsman and takes interest in sport generally, but more particularly in thletics He is a first class sprinter himself and won the 100 yards at Bombay four years in succession, 1883, 1884, 1885 and 1886, where he was credited with even time, to seconds He also took the high jump and long jump championships at Bombay in one year. He has acted for twenty years past as starter to the local Racing Club, Hyderabad

Mr LIONEL DOUGLAS CROSS (R I E College), Executive Engineer, Public Works Department, Bhagalpur Division Born on the Joined the service 9th July 1871 at home on 1st October 1900 and came to India in November of the same year While in England he had two years' practical training on water-works in South Wales Previous to his above appointment Mr Cross was employed on railway survey and construction in the Punjab from 1895 to 1897, and also served as senior Assistant Engineer on the construction of the Uganda Railway, British East Africa, from which service he resigned in 1900 On arriving in India in 1900 he was appointed Assistant Engineer on

the Bengal Northern Circle, Dariee ling Division, where he remained for a couple of years In 1904, after furlough, he was appointed to the Sone Circle, Arrah Division (Dehree Workshops), as Assistant Engineer For a short time he officiated as Executive Engineer, Acquapada Jajpur Division, and returned to the Sone Circle, Arrah Division in the same year, whence he was trans ferred to Sikkim under the Political Officer He took charge of the Agion Sub-Division on 28th Novem ber 1904 In December of same year he assumed charge as State Engineer, Sikkim State In 1905 he reverted to the Northern Circle, Darjeeling Division In 1905-06 he officiated as Executive Engineer Central Circle, 2nd and 3rd Calcutta



Mr. L D CROSS

Divisions Mr Cross took furlough in 1906, and in 1907 on his return, was appointed Executive Engineer of the Bhagalpur Division and posted to Bhagalpur

Reverend Dr P CULLEN (retired Lieutenant-Colonel, 1 M S), M R C S, & L M (Lond), M D, M C (Aberd), D P H (Edin), Assistant Chaplain, Jubbulpore Born at Kurnal in Upper India in the year 1835, and educated partly in India and subsequently in London and at the Aberdeen University Joined the Indian Medical Service

in 1859 and arrived in India the same year His first post was with the 19th Punjabees (now 27th) He accompanied this regiment to Chana for which service he received the medal On seturn to India he marched in medical charge to Phillour In 1862 he was transferred to civil employ and appointed to Nagpur (at that time known as the assigned districts), in medical charge of ist Nagpur Irregulars was appointed In 1863, he Damoh, C P, where he also served Civil as Superintendent of the Jail and Honorary Magistrate, after passing examinations in language and Criminal Law He was after three years transferred to Wardha as Civil



Rev P CULLEN

Surgeon and Superintendent of Cotton Affairs He was the first to introduce cotton presses Hingunghat After furlough he was appointed Civil Surgeon and Superintendent, Central Jail, Hoshangabad, where he served for seven years Held medical charge of 32nd M I during November 1873, and medical charge of 22nd Regiment M I, from February 1873 to April 1874, and again during May and June 1874, in addition to Civil medical charge, which latter duty he discharged for seven years Transferred to Khundwa in 1875, served fourteen years In 1873, appointed President of Municipal

Committee, and in 1881 | Justice of the Peace, and finally in 1880 to Nursinghpur, where in 1893 he completed his service and retired to settle in Jubbulpore after 35 ve irs' consecutive service. In 1900 he was ordained a priest by B shop Welldon at Calcutta Cathedral, and appointed Honorary Assistant Chaplain of the Church of England Jubbulpore He acted for some time on the Committee and is Secretary to Christ Church School Jubbulpore

Mr J E MENINDER D'CRU Executive Engineer, Improvement Trust Board, Mysore City the late John Alexander D'Cruz, Son of late uncovenanted Assistant Chief Engineer's office, Madras Born in Madras in 1860 Educated it San Thome Seminary, and Presidency College, Madras He joined the British Government service in 1881 and was for a short period employed in the office of the Inspector-General of Registration, Madras In 1883 he entered the College of Engineering, Madras, and passed the Assistant Civil Engineer's test in the following year In 1885 he passed the B C E Examination and joined the Madras Survey Department as Sub-Assistant Superintendent, which appointment he held till 1889 when he was made Assistant Instructor, College of Engineering, Madras He was appointed at the same time Lecturer, Victoria Technical Institute, Examiner PWD Accountant's Test, and Examiner for Assistant Superintendents of Survey Entrance Examination He remained there for three years and then proceeded to Tinnevelly to join the District Board as Assistant Engineer In 1894 he entered the Mysore Government service. He has served in many parts of the Mysore State, He has served and was specially employed on the Cauvery Power Scheme where he constructed the whole of the headworks and channels with incidental masonry works In 1908 he invented and patented a Flush Tank and Cattle Truck combined for which he received a bonus of Rs 2,000 from the Mysore Government These are now in use in the cities of Bangalore and Mysore he was delegated to In 1902 monograph on wood-carving, for write a which he received the thanks of the

Mysorc and British Governments and of Sir George Watt He was member of the Wysore City Improvement (ommittee in the same year In the following very he was Secretary to the Industrial School at Mysore, all in addition to his other duties in connection with the schemes for the Mysore city improvements. He received a souvenir in the shape of a vatch bearing the inscription Presented by His Highness the Maharaja for services during Royal visit 1906" with a letter expressing appreciation of his services in connection with the reception of TRH the Prince and Princess of Wales at Mysore Mr D'Cruz is the author of a pamphlet



MI J L 1 D CRUZ

on 'Theodolite and Higher Survey-ing 'Aid to Computations' and "Surveying Levelling for Students"

Mr EDWARD IDOI PHUS DE BRETT, ICS Raipur Central Provinces Eldest son of Major-General H de Brett, who served for 32 years in the Indian Army Born at Mian Mir in the year 1867 Educated at first privately, then at Winchester and Now College Original Topped and New College, Oxford Joined the Indian Civil Service, Septem ber 5, 1888, and arrived in India, November 23, in the same year His first post was as Assistant Commissioner, Wardha, and he served in this grade at Raipur and

Bilaspur till, in 1891, he was appointed to officiate as Deputy Commissioner and posted to Nagpur He served as Settlement Officer at Narsinghpur from 1891 to 1894, and at Saugor from 1895 to 1897,



Mr E A DE BRETT

being temporarily attached in 1896 to the office of the Commissioner of Settlements and Agriculture 1897 his appointment as Deputy Commissioner was made substantive and he served at Narsingh pur, Mandla and Jubbulpore till 1898, when he was appointed to officiate in charge of the current duties of the office of the Commissioner, Jubbulpore Division In 1898-99 he took a year's furlough, and returning to duty in October of the latter year served as Deputy Commissioner at Narsinghpur and Raipur till 1901, when he took furlough on medical certificate for six months In 1902 he returned to duty and was appointed Deputy Commissioner of the Second Class, serving at Chanda, Nagpur, and Hoshangabad In 1905 he was again on furlough, and on his return in 1906 was posted to Saugor In the following year he was appointed Political Agent, Chhattisgarh Feudatory States, Raipur

Mr HENRY VERNON DRAKE-BROCKMAN, ICS, MA, LLM (Cantab), Bar, at-Law, JP, Judicial Commissioner, Central Provinces Born at Madras, November 8, 1865

Educated at Charterhouse School and St Peter's College, Cambridge, joined the Indian Civil Service 1885, and arrived in India December 10, 1886 He served as Supernumerary Assistant Commissioner at Nagpur, Raipur and Saugor, till made substantive in 1890, and appointed to officiate as Deputy Commissioner He was Under-Secretary to the Chief Commissioner in 1890 and 1892, and in the latter year was appointed to officiate as Commissioner of Excise, etc. In 1894 he was appointed substantive Deputy Commissioner and Commissioner of Excise In 1896 he was posted to the Nerbudda Division as Divisional Judge and made substantive in this appointment in the following year In 1903 and again in 1905 and 1906 he acted as Judicial Commissioner, Central Provinces, an appointment in which



Mi H V DRAKT BROCKMAN

he was confirmed in 1906 and has held ever since In 1908 Mr Drake-Brockman was Chairman of the Executive Committee of the Provincial Branch of the Indian Famine Charitable Relief Fund

Mr EDWARD DYCE DUCK-WORTH, BA, ICS, District Judge, Mandalay, Upper Burma, was born in the year 1875 at London and received his education at Mailborough College, and afterwards proceeded to the University

of Oxford, his college being Pembroke College at that University He left college with the degree of Bachelor of Arts He was successful in the competitive examination for the Indian Civil Service



Mr E D DICKWORTH

in 1899 and joined the service in October of the same year He came out to the East in December 1899 and his first appointment was as Assistant Commissioner at In the following six years he served at Thayetmyo, Salin, Rangoon and other districts, in 1902 officiating for one year as Private Secretary to His Honour the Lieutenant-Governoi of Burma In July 1905 he was appointed to officiate as District Judge at Prome, Tharrawaddy and Mandalay, for a short period In September 1906, as Assistant Commissioner he was appointed to officiate as District Judge and Additional Sessions Judge, Mandalay

Mr MAURICE WALTER FOX-STRANGWAYS, I c s, c I E, Financial Commissioner, Central Provinces and Berar, Nagpur, son of the late Colonel W A Fox-Strangways, R A Born at Aldershot, England, in the year 1862 Educated at Charterhouse School and Balliol College, Oxford Joined the Indian Civil Service in 1882 and arrived in India in November of that year He served as supernumerary Assistant Commis-

sioner till 1887, when he was appointed to the grade of Assistant Commissioner, and later in the same year Settlement Officer—In 1890 he was appointed to officiate as Deputy



Mr M W FOX-STRINGWAYS

Commissioner In 1897 he was appointed to act as Chief Secretary to the Chief Commissioner The officiating appointment of Commissioner was bestowed on him in 1900, and two years later he was confirmed in this grade In December 1908 he received his present appointment as Financial Commissioner, Central Provinces and Berar

The Hon'ble Mr STUART MILFORD FRASER, ICS, CIE, British Resident to the State of Mysoie, and Chief Commissioner, Coorg Born on 2nd June in the year 1864 and educated at Bundell's School, Tiverton, and Balliol College, Joined the Indian Civil Service in the year 1884, came to India in November of the same year and was appointed to the Bombay Presidency, where he served at various centres as Assistant Magistrate and Collector till 1889 when he was selected to act as Tutor and Guardian to the young Maharaja of Kolhapore and the present Thakore Saheb of Bhavnagar Six years later he was appointed Judge and Sessions Judge at Belgaum, but in 1896 he again reverted to the Political

Department as Inter and Governor to the young Miharaja of Mysore In this appointment he gain ed an intimite knowledge of the Mysore State In the year 1903 Mi Fraser was placed on special duty in the Foreign Department, of the Government of India and subsequently rosc to Deputy Secretary of that Department During the absence of Sir Iouis Dane, for a twelve month from October 1904 to October 1905, Mr. Fraser officiated as Secretary in the Foreign Department He was also deputed to serve as British Commissioner in the matter of the Anglo-Tibetan negotiations with the Chinese Plenipotentiary appointed by the Chinese Imperial Govern ment to Calcutta On the retire ment of Sir James Bourdillon,



The Hon'ble Mt S M Frisir

ICS, KCSI, in November 1905, Mr Fraser received his present appointment as British Resident to the Mysore State

Mr ROBERT RICHARD GALES, MINSTCE, TCH Born at Littlehampton in the County of Sussey, England on 31st October 1864 He received his technical education at Coopers Hill, and passing out at the head of his year was made a Fellow of the College and appointed to the Railway Branch of the Indian Public Works

Department in the year 1886 Previous to proceeding to India he received a course of practical training on the famous Forth Bridge then under construction. In December



Mr R R Guls

1887 he arrived in India and joined the Bannu Railway Survey In October of the following year he was posted to the Chenab Bridge at Shershah under Mr J R Bell the well-known Engineer In May 1890 he was appointed to take executive charge of the Manwali-Wari Railway Extension and superintended the construction of that line Sub sequently he was engaged on the survey and construction of the Mari Attock Railway, whence he was transferred to the North-Western Railway to take charge of the Speci al Bridge Division comprising the reconstruction of the Ravi and The lum Bridges Whilst on that Kulway he also reconstructed the Haroo and Chablat Bridges In October 1895 he was appointed Assistant Manager of the North Western Rul way and with an interval of furlough was employed in management for the next five years, during which he was for a year Assistant Manager on the East Coast Rulway, and Deputy Manager of the Eastern Bengal State Rulway for a similar period After a further interval of turlough he was transferred to the Allahabad-Fyzabad Railway and

The General Electric

was appointed Engineer-in-Chief of the Curron Bridge over the Ganges it Illahabad in the year 1903 He was in charge of this great work till its completion in December 1905, and was awarded a Telford premium for his paper on its con struction read before the Institution of Civil Engineers in London conducting a reconnaissance for the Bombay-Sind Railway Connection he became Engineer-in-Chief of the Coonoor Ootrcamund Rullway in 1906, and in 1908 was appointed Engineer-in Chief of the great Project for the Lower Ganges

COL 1 COLLIER G 1 L L E 7 F1 ment in the Public Department

Madras Eldest son of Colonel Count

Callett, d. Caddhaa mambay of the Galletti di Cadilhac, member of the Parliament of Italy, who married a daughter of the late Lord Monks well Born in England in the year 1877 and educated at Cheltenham College, and Trinity College, Oxford, where he took first class honours Humaniores, $F_{In_{1}l}$

the same capacity also at Rajahmundry and Ellore In April 1903 his services were placed at the disposal of the Government of India Home Department for legislative training at Simla He remained at the sent of the Supreme Government for six months and then was ap Pointed to officiate as Assistant Secretary to the Government of Madras He acted in this post till October 1905, during the latter part of which service he ilso acted as Under-Secretary to the Revenue Department In 1906 he was granted special leave In Way of the same year Mr. Galletti was transferred as Under-Secretary to the Madras Government, Revenue Department, and also officiated as Under Secretary to Government Public Department In 1907 he officiated for a short period as Chief Secretary Mr Galletti's Interary works are Edition of Viresalingam's Vinodya Tarangini with translation, 1902 Trangini Will Hamsellon, 1902 The Madras Lunacy Manual for Magistrates, 1906, "The Madras

Company sent him to India where he became Chief Electrical Engineer of the Cauvery Power Scheme in

Nevico.

 $M_{P-H-P-CBBS}$ succession to Mr Ekstrom On the 10th Warch 1903 the Government of Mysore secured Mr Gibbs services and appointed him Chief Electrical Engineer to the State In August of the same year the Mysore Government sent him on deputation to the United States of Imerica in connection with the second installation of the Cauters Power Scheme He returned in December He carried out the work in connection yith this scheme with such skill and despatch that he was specially thanked by Government on 15th July 1904 1905 the special thanks of the Mysore Government were conveyed to Again in Mr Gibbs and recorded in their proceedings dated 20th February in appreciation of the very efficient and expeditions minner in which he had done his vork in connection with the second installation of the Cauvery Power Scheme third occasion on 7th June 1906 he earned the thanks of the Government by his care and forethought bestoved on the various arrangements connected with the recept on of Their Royal Highnesses the Prince and Princess of Wales at Misore



We I CHILTH

Schools In October 29th 1900 he loined the Indian Civil Service and Proceeded to India in December of the sime year. His first post was at Coconada as Issistant Collector, and Magistrate and Government

Ecclesiastical Manual, 1906 Mr H P GIBBS WAILE, Chief Electrical Engineer to the Government of My sore (Cap lain, Bangalore Rifle I olunteers) Born at Westfield, Mass, US 1, on Ist January, 1871 Educated at Westheld Public School Later he attended a business college at Worcester and studied Electrical and Mechanical Engineering through the medium of home study International Correspondence Schools had the misfortune to lose his father when he was tuche years of age Mr Gibbs and as the estate was considerably entriled since the age of fourteen he has entirely supported himself by his own evertions He had a year's experience of general telephone work at US 1 and was for three veres at the Washburn and Woen Wire Works Worcester US I where he was employed on general and special testing work both mechanical and electrical In the year 1892 Wr Gibbs Joined the General Electric Company and went through their expert course Subsequently Mr Gibbs worked as a general electrical expert and constructing engineer

and Bangalore In July 1906 on the expiry of his original agreement Mr Gibbs was re-engaged as Chief Flectrical Engineer to the Government of Mysore He designed and carried out the entire scheme for the supply of electric lighting and power for Bangalore city, and he is at present engaged on a similar scheme for Mysore city He has also carried out electric installations at the palaces at Mysore and Ootacamund In 1905 Mr Gibbs was appointed Consulting Engineer to the Kolar Gold Fields Mining Companies for whom he has designed and carried out a very large electrical winding scheme He is a member of the American Institute of Electrical Engineers, New York and of the Institute of Electrical Engineers, London Mr Gibbs is an 18th degree Mason, Mark Mason Royal Arch, Royal Ark Mariner and Excellent Master P M Lodge, Southern Cross, S C Oorgaum Past Master Lodge United Service, E C Bangalore Wor Master, Southern Brother hood, E C Bangalore (holding for a time the Mastership of these two Lodges simultaneously) The latter Lodge has been founded by him with the object of raising Masonry to a higher stand at Bangalore He pays attention to Volunteering and holds a commission as Captain in the Bringrloic Rifle Volunteers

Hon'ble Mr MURRAY H\M-MICK, csi, cie, ics, Chief Secretary to the Government of Madras Youngest son of the Rev Sir St Vincent Hammick, Bart Born in the year 1854 (11th May) Educated at Charterhouse and Balliol College, Oxford Mr Educated at Charterhouse Hammick entered the Indian Civil Service in 1875 and served in the early part of his career in Bellary and Salem Districts and Coorg He was Assistant and Under Secretary to Government in 1883-1886 in the latter year he was appointed acting Postmaster-General, and in the following year was appointed Secretary to the Commissioners of Land Revenue in which post he remained for five years In 1893 he was appointed Magistrate and Collector, S Arcot, and in the following year Inspector General of Police, in which capacity he was employed till the year 1899, when he was appointed Plague Commissioner for Madras. In 1902 he was made a member of the Madras Legislative Council and in 1905 he acted as Home Secretary to the Government of India. In June



Hon Mr M HAMMICK

1906, he was appointed Chief Secretary to Government and later officiated is Member of the Executive Council, Madras The Honourable Mr Hammick is a distinguished Freemason and his record is—District Senior Grand Warden, District Grand I odge Madras District Grand I odge of Mark, Madras, P M, Futh Hope and Charity, 1285 E C, P M, Lodge Russell, 157 E C, P M Royal Arch Chapter Excelsion He is author of the Madias Municipal Manual, Madras Presidency, 1903

Mr SAMUEL CHARLES HILL, BA, BSC, Director of Public Instruction, Central Provinces and Berar Born at Berhampore, India, in the year 1857 Son of the late Reverend Samuel John Hill, London Missionary Society Educated at the school for sons of Missionaries, Blackheath, England, and at University College School, London, afterwards attending University College, London, from which he took the BA and BSC degrees Upon

graduating he took up tuition vorl and subsequently came to India in 1881 joining the Indian Education if Cliss IV at Dacci, in SCRUICE Bengal with the grade of Professor In 1885 he was appointed to officiate is Inspector of Schools, L.C. and tvo veirs liter joined the Krishnigarlı College Nadra, as Principal In 1800 he was again appointed to offi crite is Inspector of Schools in the Behar Circle and in this expects subsequently serven in other Circles He was appointed to officiate as Principal of the Calcutta Madrassah and Professor in the Presidency College in 1895 and in the following year is Director of the Imperial Records and Library, exofficio Assist int Secretary to Covernment of India Home Department and Pitent Secretary, Revenue and Agriculture Department and was made substantive in the same appointment in 1900. Four years later he received his present uppointment as Director of Public Instruction, Nagpur In 1902 04 while on furlough Mr Hill visited on special deputation the leading schools of Great Britain France and



Mi S C Hill

Germ my, in order to investigate the latest developments of modern educational systems preparatory to being appointed Director of Public Instruction His literary works include a Life of Claud Martin, "Three

Frenchmen in Bengal," and Early Records of the Foreign Office, the latter published for the Government of India Also a 'List of Europeans resident at Calcutta at the time of the Blackhole Tragedy," and a "History of Bengal from 1756 to 1757," which was published for the Government of India by John Murray, London

Mr DAVID BAYNE HORN, CIE, WICE, FCH and a former Fellow of the Calcutta University, was born in 1851, and joined the service of the Government of India



Mr D B HOPN

in 1874, from the Royal Indian Engineering College, Coopers Hill His first appointment was as Assistant Engineer on the Western Sone Survey Division, Bengal He joined the Public Works Sec-retariat as Assistant Secretary in 1878, serving till 1880, when he was appointed to the Circular and Eastern Canals Divisions, where he remained till 1883, meanwhile attaining the grade of Executive Engineer In February 1883 he was deputed on special duty to Tipperah, to inspect and report on the Goomtee embankment In the year 1884 his services were lent to the Commissioners of the Port of Calcutta, and he was appointed Resident Engineer of the new dock works at Kidderpore In 1885 he was appointed Under-Secretary in the P W Secretariat, and was a

the Public Works member of Accounts Committee from February to March 1889 He screed as Executive Engineer of the Buxar, Brahmani Baiturni, and Circular Canals Divisions till 1895, when he attained the grade of Superintending Engineer, and was posted to the South-Western Circle v here he remained till appointed Officiating Chief Engineer and Secretary to Government in the Irrigation Branch, in 1899 In 1900 he officiated as Secretary to Government Buildings and Roads Branch Mei a spell of special duty in 1901 he received the post of Chief Engineer and Secretary to the Government of Bengal, Irrigation Branch in 1902 and was also appointed a Member of the Bengal Legislative Council In 1903 he was promoted to the grade of Chief Engineer, 1st class and finally retired from the service in 1906. For his services he was made a Companion of the Most Emment Order of the Indian Empire on 1st January 1905

Mr PATRICK HANNYNGTON, Superintendent of Police, Bangalore, and Mysore Railway Magistrate Born in Malabar District,



Mr P HANNINGTON

Tellicherry, in the year 1871 Educated at private school in England and public school, Iteland Joined the Indian Service on 31st Janu-

ary 1891, and was posted to Tinnevelly as Probationer and Inspector of Police In the following year he was appointed to act as Assistant Superintendent and posted to Malapuram, in which capacity he also acted at Kimedi and Kistna In July 1895 he was gazetted as Assistant Superintendent 4th grade and posted to the Ganjam Division. He served in this grade at Parlakimedi, Parvartipur, Narasapatam, officiated as Superintendent at Kistna in 1898, and afterwards at Anantapur and Belliry in which latter station he received the substantive appointment of Superin tendent In 1906 his services were placed at the disposal of the Resdent of Mysore and he was appointed Superintendent of Police at Bangalore He is also Vice-Chairman of the Bangalore Municipality, and a member of the Southern Provinces Mounted Rifles

Major EDMUND MORIT? ILLINGTON, FRCS Edin (1904) DTM, Liverpool (1905), MRCSE, LRCP (England), IMS, Civil



Major E M ILLINGTON

Surgeon Ootacamund, was born in England June 1870, and educated at Berkhampstead School, Hertfordshire, and at St Mary's Hospital, Paddington, where he received his first medical training for four years, after which he was House

Surgeon at the Royal Sea Bathing Hospital at Margate, Kent England where he served for three verrs He joined the Military service in 1805 and came to India in the same year and was posted on Military duty at Mandalay Burma served in various districts also in India until the year 1898 In 1897 he was engaged on active service with the Malakhand Field Force where he obtained medal and clasp During his Military service he vas also engaged on Plague duty at Kondapalli and Thelum and served as Civil Surgeon and Supermendent of Jul at Thelum for a short period. In November 1898 he vas placed in charge of Plague inspection station at Jalarpet and vas made Chief Medical Officer 1st Innuary 1899, serving in Malabar, Cuddulore, and Cochin until Max 1900 when he was appointed District Medical and Sanitary Officer Ganjam, and Superintendent of Jul Berhampur, at Cochin in January 1907 he was appointed Civil Surgeon at Ootacamund He was promoted to Major on 29th January 1907 He has also held the appointment of Clinical Assistant at the Samaritan Free Hospital for Women London and the Hospital for Sick Children, Great Ormond Street

Mr GUSTAV HERMAN KRUM-BIEGEL Superintendent, Government Gardens and Museum, Mysore State Born at Lohmen near Dresden in the year 1865 cated at Wilsdruff and Dresden in the German Empire He served his horticultural apprenticeship at Pillnitz the hne summer residence of the King of Saxony He obtained employment in 1884-85 in the Agricutural and Fruit Department of the Schwerin (Mecklenburg), Royal Garden, and from 1885 to 1887 was employed at Hamburg principally on work connected with landscape gardening He went to England in 1888 and at first worked in Hvde Park, London, propagating, designing and laying out flower beds. In December of the same year he entered the Royal Botanical where Garden at Ken attended lectures and passed in all the subjects Systematic Botany Economic Botany, Geographical Botany, Physics, Chemistry, and in

1890-93 he obtained an appointment on the staft in charge of the Propagating Department through out this period he pursued his studies attending the South Ken sington University Extension Tectures obtaining certificates and prizes in Geometry and Perspective Driving He came out to India in 1803 under appointment from the Secretary of State to take charge of the Baroda State Gardens These gardens some tv enty-five in number covering an acreage of about 2 000 acres have mostly been laid out by Mr Krumbagel The principal gardens he iround the various pulaces the parts immediately adja-



Mr G H KRUMBIFCH

cent to the places being treated in high class ornamental style, and the outlaying areas laid out in effective landscrpe style. In addition and as an adjunct to landscape gardening Mr Krumbiegal has done much in carrying out elaborate architectural work, such as fount ains bridges, pavilions and even large buildings chiefly at His Highness the Gaikwars estate at Ootacamund m the Neilgherry Hills, which was completely laid out and built by him In January 1908 he was appointed to his present post in charge of the State Gardens at Mysore and of the Vuseum He has completely reorganised the garden department and has greatly improved the gardens themselves, both is pleasure resorts and educational establishments besides thoroughly taking up experimental and economic work in connection there-

Licut Col WHITIAM BYAM LANE LMS Inspector-General of Prisons Nigpur Central Provinces Born at Antigua in the West Indes in the year 1866 and educated at Christ's Hospital London He then vent to Germ inv to the Neuenheim College He delberg where he pursued his studies for event indahalf ifter a high he returned to England and was for five years attached as a student to St. Bartholomev's Hos. pital London. He passed out in 1888 joining the Indian Medical Service in the same year. He ar rived in India on March 26th (1880) after serving for a time at the Royal Victoria Hospitalat Netley England His first appointment in India was to the Station Hospital Allahabad In 1880 he was placed in Medical charge of XI (P W O) Bengall ancers now XI (king Edv ard's Own) Bengal Lincers In 1890 he was transferred in the same capacity to the 45th Sikhs. In 1891 he saw active service with the Hazara Field Force He served also with other regiments the 21st Punjab Infantry the 14th (P W O) Sikhs 3rd Punjah Cavalry and No 4 Hazara Mountain Battery and 23rd Pioneers It Waziristan he was in charge of the 1 20 Native Field Hospital and served with the Chitral Relief Forcewith the 23rd Pioneers in 1895 In 1897, 1898 and 1899 he was during the whole Frontier Expedition attached to the Base Hospital (No 4 Native General Hospital) at Nowshera In 1809 he officiated as Civil Surgeon and Superintendent, Central Jail, Montgomery and in 1902 was made substantive in this post his services having been placed temporarily at the disposal of the Punjab Government In 1903 his services were placed at the disposal of the Chief Commissioner, Central Provinces, and he was posted to officiate as Superintendent, Central Jail, Inbbulpore After combined leave and furlough he was appointed Inspector-General of Prisons, C P, Nagpur, 1n 1905 He holds the Hazara Medal and Clasp 1891 The Waziand the ristan Clasp 1894 95 Chitral Medel and Clasp

Mr HENRY MONTAGUE LAURIE, WA (Oxon), Bar-at-Law, ICS Commissioner, Nerbudda Division, Hoshangabad, Central Provinces Born in England in the year 1865 Educated at private schools, subsequently in Germany and at Balliol College,



Mi H M Laurif

Oxford, where he took his BA degree in 1887 Was called to the Bar at the Middle Temple in the same year Joined the Indian Civil Service, September 21, 1886, and arrived in India December 3, 1887 Served in Assistant Commissioner's grade until 1895, acting as Registrar, Judicial Commissioner's Court, and as Under-Secretary, officiating as Deputy Commissioner, Balaghat 1892, and as Deputy Commissioner, Bhandara, 1893, until he was appointed substantive Deputy Commissioner in 1895 He served in this grade at Raipur till 1800 when he went on furlough On his return he was appointed to act as Divisional Judge, Hoshangabad, and was appointed and Secretary to Chief Commissioner in 1900 and Chief Secretary in 1903 In 1905, he was appointed to officiate as Commissioner, Chhattisgarh Division, and held charge of the office of Political Agent, Chhattisgarh Feudatories, in addition, from June 2 to July 15, 1905 He was placed

on special duty in connection with the organisation of the Drug District in 1905, and was appointed Political Agent, Chhattisgarh Feudatories (substantive), early in 1906 In the same year he officiated as Commissioner, Chhattisgarh Division in addition In 1907 he officiated in the same capacity, Jubbulpore In 1908, after leave he was appointed to his present post of Commissioner, Nerbudda Division

Mr JOHN BONFOY LEVEN-THORPE AMICE (R I E College), Chief Engineer and Secretary to the Chief Commissioner, Public Works Department, Nagpur, Central Provinces Born in England February 18, 1855 Educated at Marlborough College and Royal Indian Engineering College, Coopers Hill Joined the Indian service in 1877 and underwent a year's course of practical training in England, after which he proceeded to join his appointment in India, arriving in the year 1878 His first post was as Assistant Engineer, Hoshangabad Division Up to 1885 he served in this capacity at several stations



Mr J B LEVENTHORPE

In the latter year he received promotion to Executive Engineer and was posted to the Nagpur Division, subsequently serving in the same capacity until 1902, when he

was appointed Officiating Secretary to the Chief Commissioner, Nagpur, in the Department of Public Works, and also officiated as Superintending Engineer. In the latter part of the year 1903 he was made substantive in the Superintending Engineer's rank and posted to the East Circle, retaining this position until he was appointed to his present post of Chief Engineer and Secretary to the Chief Commissioner, P. W. D. at Nagpur

Major DONALD JOHN CAMP-BELL MACNABB, 1A, Deputy Commissioner, Mandalay Born 24th June 1864 Educated at Sandhurst After passing out of College, he joined the Highland Light Infantry and came out to India From this regiment he joined the Indian Staff Corps and was posted to the 7th Bengal Infantry In the year 1887 he was appointed Assistant Commissioner at Yowun, Burma and served in this capacity in various districts till 1891, when he took furlough on medical certificate for three years, joining the service again in 1894, in which year he was posted as Assistant Commissioner to Kindet and Ma-ubin In these districts he also officiated as Deputy Commissioner He was appointed Deputy Commissioner at Seoni in 1897 and served at Raipur from 1899 to 1902, when he was transferred to Toungoo also as Deputy Commissioner for a short period In December 1904 he was transferred to Sagaing and again in 1906 to Mandalay In April 1908 he was appointed officiating Commissioner, Meiktila Major MacNabb is the author of a work on The Chins, their manners, their customs and their country," and also of 'The Handbook of the Hako-Chin Dialect ''

Mr W McHUTCHIN, MICE, Chief Engineer and Secretary to the Government of Mysore, Public Works Department and Railways Son of the late Thomas M McHutchin, Madras Staff Corps, and grandson of the late John McHutchin, who was Clerk of the Rolls of the Isle of Man from 1821 to 1847 born at Mercara, Coorg in the year 1854, educated at Ros sall, Lancashire passed the examination for Assistant Engineer

prize He joined Government service in the Public Works Department in 1883 with the grade of Assistant Engineer, and was employed in the Almere Provincial Divi-



Mr R MITRA

sion and on Military Works and Roads in Raiputana till 1890 when he was transferred to the Eastern Division of the Central Provinces In 1895 he was appointed to officiate as Executive Engineer, Eastern Division He served in the Hoshangabad Division, Umaria Colliery, and the Jubbulpore Division, and was placed on special duty in the Secretariat in 1897 in connection with the famine In 1898 he was made substantive Executive Engineer and was appointed Under-Secretary to the Hon'ble the Chief Commissioner in 1900 quently he served in the Nagpur and Narsinghpur Divisions, and in 1906 he was appointed to officiate as Superintending Engineer in which grade he was confirmed in 1908 Mr Rajesvara Mitra was awarded the Kaiser-1-Hind Medal of the Second Class for public service in India on June 26, 1902 In 1894 the thanks of Government were bestowed upon him for getting out the designs for the Rajkumar College at Raipur In 1898 he received the thanks of Sir Charles I yall for his rapid and economical carrying out of the reconnaissance for the Nagpur-Jubbulpore Railway His Excellency the Viceroy's high appreciation of the excellently organised famine relief works in the Hoshangabad District was conveyed to him after Lord Curzon's inspection in November 1899. He was specially thanked in 1901 by Sir Andrew Fraser then Chief Commissioner Central Provinces for his excellent work in the great famine of the previous year. He was an invited guest at the Delhi Durbar of 1903 when he received the Durbar Medal. Mr. Mitra is a member of the Institution of Civil Engineers London.

Mr WIILIAM ALFRED MORAN, Executive Engineer, Bassein Division Public Works Depart-



Mr W A MORAN

ment Burma Born at Nami Tal, United Provinces, in 1863, educated at La Martiniere College Lucknow and Thomason Civil Engineering College at Roorkee He passed out of Roorkee with an ordinary certificate, served in Murree Jhelum, Lahore and on the North-West Frontier as an Assistant Engineer In 1889 he was transferred to Burma and served as an Assistant Engineer in Henzada and Rangoon In 1894 he was placed in charge of the Bassem Division and has since held charge of the Arakan Chindwin, Henzada, Toungoo and Bassein Divisions

Completed the hill road from Toungoo to Thandaung, the Hill Station for Lower Burma and was the designer of the steel bridge over the Sittang River at Toungoo He is now in charge of the most extensive and perfect system of embankments in the Indian Empire which protect the Henzada and Myanaung Plains from inundation by the Irrawaddy, and produce a revenue of over twenty lakhs a year

Mr ADAM WILLIAM MURRAY. Secretary of the Moulmein Municipality son of the late Mr William Henry Gilbert Murray, who died in 1864, was born at Moulmein in the year 1858 and educated locally On leaving school he joined the Rangoon Pilot Service but resigned later for the purpose of joining the sea service of the British India Steam Navigation Company He resigned this service in the year 1879, and returned to Burma where he was engaged for a time in prospecting for antimony, under the late Mr Geo E L Dawson After nine months, antimony not having been found by them in paying quantities, they abandoned the quest In connection with Mr Dawson



Mr A W MURRAY

Mr Murray established the Salween Steam Navigation Company in 1882, commencing with a service of two steam launches The flotilla was

gradually increased from time to time till it numbered 15 launches and paddle boats A small narrow gauge railway was also laid down by the Company for the purpose of transferring passengers and freight landed from the steamer at Duyinseik, to the town of Thaton some 8 miles distant. This effected a considerable saving as the distance between the two places by water is 54 miles The Burma Government under Sir Charles Bernard granted a subsidy to this line Other scrvices were gradually opened up by the Company, all of which were subsidised by the government of Burma Mr Murray was the active partner managing and directing the affairs of the Company They estab hished their own workshops at Moulmein where among other business, they built launches for the Arracan Flotilla Company as well as for their own service. After the death of Mr Dawson, which occurred in 1899, the Company's business and possessions at Moulmein were disposed of to the Irrawaddy Flotilla Company in 1901, the price paid being Rs 5 01 000 At the same time Mr Murray joined the Irrawaddy Company as Manager of the Thaton and Duymseik Railway remaining with the Company in this cipacity until July 1906, when he resigned for the purpose of taking up the appointment of Secretary to the Municipality Moulmein He 1s married to Eugenie Genevieve daughter of Eugene Gustave Limouzin and has issue six children (four boys and two girls)

Revd W MUSPRAIT, MA Chaplain, All Saints' Church Coonoor Son of the late Fred Muspratt Esq, JP Born at Bayswater London, in the year 1868 Educated at Queen's College Cambridge whence he took Holy Orders Until the year 1896 the Revd W Muspratt held curacies at Chatham Finchley and other places In the latter year he was appointed to the Indian Establishment of the Church of England and given charge at Bangalore South India where he was identified with All Saints' Church, and built the Parsonage Subsequently he was appointed to Vellore, Madras, and on the 7th February 1908 he obtained the

appointment at Coonoor While at Vellore he was a member of the Municipal Council and collected the money (Rs 3 700) to build a Church at Pakole The Revd W Mus



Read W MUSPRATT

pratt is an ardent educationalist and his interest in education has taken practical shape. In his former churches he had schools attached and while at Madras he organised and established a school for Europeans and Eurasians at Royapuram. This institution has been very successful.

Mr ALAN BERTR IM NAPIER, ICS BA (Cantab) Deputy Commissioner, Nagpur Central Provinces Born at Clifton England, in 1867 Son of the John Warren Napier Son of the late Revd Vicar of Stretton and later of Axwell Park County Durham England Anna Maria Helen, daughter of the late Colonel Francis Hunter, formerly of the Honourable East India merly of the monourable East mula Company's Service He is a member of the Ettrick Napier family and cousin of Lord Napier at one time Governor of Madras being descended from William the 7th Baron Mr A B Napier was educated at Roscall and Tripity Colcated at Rossall and Trinity College Cambridge He joined the Indian Civil Service in 1888 and arrived in India September 30 1889 His first post was as Assistant Commissioner, Nagpur In 1893 he was appointed to officiate as Deputy Commissioner Chlindwara. He was Settlement Officer Bhandara District from 1894 to 1900 being confirmed as a Deputy Commissioner in 1897. After a short period of special duty in the Secretariat and Settlement Commissioner's office he was appointed Commissioner of Excise in 1902 and then became Deputy Commissioner of Raipur, where he was awarded the Kaiser-i Hind Medal for public services in 1904. In 1907 he was appointed Settlement Officer, Phuljhar Zamindari in addition to his



M1 1 B NAPILE

other duties and later in same year Political Agent Chlindwara Feudatories From April to November 1908 he officiated as Commissioner Nagpur

Dr THOMAS JOSEPH O'DON-NELL FRCSI ICPI, Chief Medical Officer Kolar Gold Fields, Champion Reefs Born in Tipperrry Ireland, and educated at the Ledwich School and Royal College of Surgeons Dublin, where he qualified in the year 1878 He afterwards practised at Rhymney Iron Works South Wales, and Consett Iron Works Durham Having the seven years' experience gained in these busy industrial centres in the old country to recommend him, in 1885 he was selected as their

Medical Officer by Messrs John Taylor & Sons Managers of the Companies working on the Kolar Gold Fields, and came out to India in the same year to take up his professional duties At that time there was no hospital at the Gold Field Dr O'Donnell undertook the whole work of medical attendance himself He impressed the necessity of establishing a hospital on Messrs John Taylor & Sons, and they found the money wherewith to start a small hospital accommodating about 48 patients which was opened in 1887 The need of more complete medical arrangements was severely felt and representations being made to the Directors from



Dr T J O'DONNFLI

time to time Dr O'Donnell was authorized to build additions to meet the situation. The present splendid up-to date hospital which was completed in 1900 is the result. It is a fine modern structure provided with good accommodation, and the best appliances for the practice of medicine and surgery including electrical and Rontgen Rays apparatus a Bacteriological Laboratory, etc., and is fully abreast of the times. The staff consists of Dr T J O'Donnell, Chief Medical Officer, J D O'Donnell, rrcsf, First Assistant Medical Officer, L P Stokes, Lrcs & Pi, Second Assistant Medical Officer, James

F Fitzmaurice LRCPI, & SI Third Assistant Medical Officer, Venkata krishna Row, CS, LM & S Resident Medical Officer, Miss N Nelson Matron Mrs E Old, Mrs E M Sankey Dunhill, Mrs E Edwards Nurses, W \ Fernandez Senior Hospital Assistant, T J Manikam, Junior Hospital Assistant, W S Newman LMP CCS, Chemist

There is also a Sanitary Inspecting body under the control of Dr O'Donnell in connection with the Mining area of the Kolar Gold Field Sanitary Board This department is thoroughly systematized and its energies have resulted in the reduction of plague to a very low figure

Rat destruction was recognized in the early days as the key to success in the combat with the pestilence and a methodical plan was entered upon for the extermination of rodents—their holes were traced to the bottom the nests found and voung and old rats were immersed in strong Izal solution until death ensued As supplemental measures rat traps the Common Sense Rat Exterminator and the Liverpool Virus were largely employed and the comparative immunity from plague which the Mining area of the Gold Field has enjoyed is to be attributed to this rat crusade, which is continued throughout the year whether plague is in evidence or not The Laboratory attached to the Hospital too has played an important part in the recurring epidemics. Here if there is the slightest suspicion that a rat has died of plague, bacteriological investigation is instituted and if positive evidence it discovered evacuation of the premises from whence the rodent came is carried out with the utmost celerity

In 1900, Dr O'Donnell visited Ireland and took his Fellowship of the Royal College of Surgeons

Dr O'Donnell is a Surgeon-Major in the K G F Vols, and has had the honour of receiving the D V

The Honourable Mr MICHAEL FRANCIS O'DWYER B 1 C S I Resident of Hyderabad (Deccan) Born 1t Barronstown Tipperary in the year 1864 Educated at St Stanislaus' College and Balliol College, Oxford He took his degree

in 1885 and gained first class honor in Law He passed into the Indian Civil Service in 1884 and in November of the following year came to India His first ten years of service were passed in the Punjab where he served as Assistant Commissioner Settlement Officer, and Deputy Commissioner in various districts He took furlough in 1895, which he utilised to travel in Russia studying the language and qualifying as Interpreter He returned to India at the end of 1806 when he was given the appointment of Settlement Commissioner to the States of Alwar and Bharatpur in Rajputana He remained four years in this appointment and took



The Honble Mr M F O'DWIFT

leave in 1901 On his return he was transferred to Peshawar as Revenue Commissioner of the new Frontier Province In 1905 he officiated for three months as Chief Commissioner of that Province In 1907 he officiated as Resident Hyderabad for a short term and in 1908 was again appointed Acting Resident, H H Nizam's Dominions

Mr JOHN GEORGF DENMAN PARTRIDGE, ICS Collector and District Magistrate Cuddapah was born in England in the year 1865 and educated at Sherborne School Dorsetshire and University College, London He joined the Indian Civil Service in 1886 and arrived

in India in January 1887 His first appointment was at Frichinopoly as Assistant Collector and Magistrate He filled the same



Mr J G D PARTRIDGE

position at Kurnool, Godaveri and Ganjim until 1893, then became Senior Assistant Collector and Magistrate, and from 1893 to 1897 he officiated as Principal Assistant Collector and Magistrate and Agent to Government at Ganjam From 1898 to 1900 he acted at Madura as Collector of the District In 1901 he wis again transferred to Ganjam and then served as Collector District, Magistrate and Agent to Government until 1908 when he was appointed Collector and District Magistrate at Cuddapah

Mr FRANCIS ANGEIO THEO-DORE PHILLIPS 10.5 Commissioner Chhattisgarh Division Raipur Central Provinces Born 11 I ondon August 3 1857 and educated at Winchester College After leaving this public school he was at Wren's Coaching Establishment for a short time and subsequently entered at Balliol College Oxford He joined the Indian Civil Service September 14 1880, and arrived in India on November 11 of the same year He served in the grade of Assistant Commissioner until 1891 during which

period he officiated as Personal Assistant to the Chief Commissioner 1883, Judge, Small Cause Court, Nagpur, 1883-84, Deputy Commissioner, Sambalpur, 1881, Bilaspur 1885, Raipur 1885 Nimar 1887, Judge, Small Cause Court, Jubbulpore, 1887, Deputy Commissioner, Nimar, 1888, Bhandara 1890, Narsinghpur 1891 He was appeinted substantive Judge, Small Cause Court, Jubbulpore, in the last named year, and Commissioner of Excise later in the same year In 1892 he was confirmed in the Deputy Commissioner's grade, and in 1898 appointed to officiate as Commissioner, Nerbudda Division In 1901 he was promoted to the



Mr f A T PHILIPS

substantive grade of Commissioner and posted to Chhattisgarh From 5th to 24th March 1907, he officiated as Chief Commissioner, Central Provinces, substantive pro tem In April of same year he was appointed to officiate as Political Agent Chhattisgarh Feudatories, in addition to his other duties Mr Phillips is President of the governing body of the Rajkumar College, Central Provinces, Raipur In his College days he was a member of the Oxford University Football Team (1879-80) and played in the Final Tie for the Association Cup

Mr HENRY ALEXANDER PLAYFAIR Deputy Inspector-General of Railways and Crimes, Police Department, Central Provinces and Berar Son of the late General Elliot Minto Playfair, RA, at one time Commissioner of the Central Provinces He was educated at private schools in Bedfordshire and Blackheath, England and after being two years at Edinburgh University he obtained an appointment in the Police Service, Central Provinces, India, in 1882 He served as Assistant till 1863 when he was appointed officiating District Superintendent In 1893 he was placed on special duty at Sehore in the Bhopal State In 1901 he officiated as Inspector-General of Police and Jails Central Provinces, in addition to his own duties, and in the following year was again ap pointed Acting Inspector-General His services were placed at the disposal of Government of India, Foreign Department, in 1902-03, in connection with the Delhi Durbar as Attach, for C P In 1906 he was appointed Deputy Inspector-General of Police, sub pro tem, the appointment being made substantive in 1907

Mr SIDNFY MEI VILLE PRITCHARD, Superintendent of Police Kolar Gold Fields Son of the late Thomas Pritchard of the



Mr SIDNEY M PRITCHARD

Madras Civil Service Born at Sunkeridroog Salem District, Madras Presidency, in the year 1870 Educated at Beaumont College Windsor, England He studied at the Edinburgh High School and next proceeded to the Oxford Military College passing the preliminary examination for the army. The death of his father induced hum to go to Australia where he vent in for sheep farming remaining in that country for five years During that period he passed the Matriculation Examination of the Melbourne University but owing to the financal crisis in Australia he returned to India. Here he embarked in coffee planting in which he still retrins in interest. In Mirch 1904 he entered the Kolar Gold I elds service of Messrs John Livlor & Sons is Chief Supervisor of Witchmen which appointment he held till July 1007 when he was up pointed to the Police Department of the Mysore State Government service as Assist int Super ntendent on the Gold Fields. He was promoted to Superinten lent in September of the sam year. He passed the higher Criminal Examination at Bangalore in May 1908 The Kolar Gold Field Police Force consists of 250 men under two European and six Indian Inspectors Mr Pritchard has brought the force to a high state of efficiency

Mr. V.K. RAY vis born on the 28th of Jinuary 1855. He is 27th in descent from Vedigirbhi the most learned, in the Vedas of the four Kining Brahmins imported into Bengal by King Adistra in the ninth century of the Christian cri, and is a scion of the Bengil Swarna family. The founder of this family I ikshmil into Minim divided with Blitzin and a Mijumdir the incestor of the Krishnigar Rij family in the early years of the seventeenth century, the highest honours and privileges in the Government of Bengul under its Hindu Governor, General Rajah Man Sing For services rendered to the General by his fither and himself, Iakshmikanti was in irded by the Emperor Abb ir Jigirs and zamindaries which yielded him a net income of rupces girs twelve lakhs per annum Agrestgrandson of I'akshmik inta Vidyadhar Ray Choy dhury, was the first amongst the Bengal zamindars to extend help and protection to the

hardsed English merchants when they were turned out of Hooghly He alloyed them to settle in Calcutta in spite of the Navab Mixeda Khan's threats and protests. It was Ramehand, the son of Vidyadhar who with his cousins Manohar, Prin and Rambhadra signed away the deed of sale by which the right to the rents of the three villages, Dihi Kalkatah Sutamuti and Govindapur, which together now form the town of Calcutta was transferred to the E I Company

The members of this family entered the service of Government for the first time in the last generation. Both his uncles one a Sub-



Mr. A. K. RAY

Judge, and the other a Deputy Collector died in harness whilst Mr. Ray's father lived for nearly seven years after his retriement on pension. All three of them were highly respected by, and were on terms of friendship with, then official superiors, amongst whom Messrs Money, C. T. Buckland, J. P. Grant, A. C. Brett, Sir Henry Harrison, and Sir Henry Thoby Prinsep, may be named for their special kindness and cordinaty.

Mr Ray headed the list of the graduates of the Calcutta University in January 1870 from the Hooghly College in which he received his English education,

and obtained a record stipend He passed his M A with honours from the Presidency College in 1880, and entered Government service in March of the following veir is a Professor of Science in the Rajshahi College Whilst employed in the Education department he was sent to England in December 1582 where he graduated M R A C with first-class honours m the Royal Agricultural College at Chemister He also obtained during the same year in open competition the life membership together with a monetary prize of the Royal Agricultural Society of England Since his return to India, Mr. Ray has been attached to the Provincial Civil Service of Bengal and has held very nearly ill the appointments for which Provincial men in the Executive branch are eligible. He has held charge of important sub-divisions in Bengal such as Bongong, Natore Artrit, Kushtri and Ranigunge He is vell known for his honest fearless, and independent character He has been commended for important and useful work done by him in Lycisc Settlement Registration, I and Acquisition and Census departments. His was the first final settlement report of operations conducted under the Bengal I chance let and it was greatly valued by officers until the Settlement Minuil was issued. In the Government resolution on the census of Calcutta 1901, Mr. Ray was especially commended and thanked by the Government, and his "Short History of Calcutta" was deemed the most interesting contribution in connection with that work. He also carned the thinks of Government by his compilition on the Land Values of Calcutta in connection with the proposed improvement scheme in 1904, and it was circulated by Government to all District Officers

Mi Riy acted is Collector of Bilisore last year and is at present employed in the Presidency Division Besides his 'Impressions in England,' which has just passed through its second edition, and his 'Short History of Calcutti,' no book of his has been published in the English language, but his contributions to periodical literature have been consi

derable His Bengali works Gojatir Unnati," Goseba Put I" Krishi O Gomay" ue well I nown, ind are on the approved list of the Text-book Committee The first-named work has appeared in three languages, Uria Bengali and Hindustani

Mr FRANCIS PEPAS RENNIL I Cs. Divisional and Sessions Judge Deraint, North-West Frontier Provnce Born in the year 1872 educated at Winchester College and Clare College Cambridge Joined the Indian Civil Service in the year 1895 and was posted to the Punjib Served is Assistint Commissioner it Ray ilp ndi from December 1895 to June 1897 being transferred in the latter year in same capacity to Sulkot Later in the same year was transferred to Peshawar and appointed City Magistrate at that centre, holding this post till 1898 when he was placed in charge of the That Sub-Division of the Kohat District In December 1898 he was deputed to settlement truning in the Jhelum



Mr F P KENNIL

District for three months, and then appointed Sub-Divisional Officer of the Mardan Sub Division of the Peshawar District In May 1899 was returned to Thal and in 1900 was appointed to officiate on special duty in the Kurram Valley In the same year he was again appointed to Thal, and in

the following veir wis cilled on to officiate is Deputy Comm's soner Kohat District In Ichru iry 1002 he was again posted is Sub Division il Officer to Mardan In the same year ofter six months leave he was appointed District Judge and subsequently Deputy Commissioner of the Bannu District and two years later to officiate is Divisional and Sessions Judge of the Dergit After holding this post a year he took furlough and on his return in 1906 v is appointed I'rst Assistant to the Resident in Misore In 1908 he vis igun transferred to the Front er and appointed substantive. Divisional and Sessions Judge of the Deright When the North West I ront er Province was separated from the Punjab in 1001. Mr. Rennie vas one of the officers who three in his lot with and was selected by the late Sir Harold Deine Chief Commis s oner for appointment in the new Province

Mi JOHN HERBERT ROBERT-SON ics, Magistrite and Collector and Additional Sessions Judge Oot icamund Born in the year 1868 at Etah N-W Provinces, India He was educated partly privately in Scotland, at Highgate School and Balliol College Oxford In the year 1889 he joined the Indian Civil Service and in November of the same year came out to Inda His first post was it Silem as Assistant Collector and Magistrate served in several other districts in the Madi is Presidency in the same capacity, and also officiated is Head Assistant Collector and Magistrate till the year 1893 when he proceeded on furlough on medical certificate Two years later on his return from furlough he was appointed Assistant Collector in South Canara and served in that capacity at linnevelly till, in 1896, he was appointed Special Assistant Collector, Magistrate and Government Agent, God 1veri, and acted is Sub-Collector and Joint Magistrate at Finnevelly and Chingleput Two years later he was transferred in the same capacity of Special Assistant Collector and Magistrate to Malabar, and served in this capacity in other districts, in 1899 officiating as Additional Sessions Judge at Tinnevelly In 1900 he officiated as District

and Sessions Judge Vizigipation for a short period. In the following year he was transferred to Cuddipali and in this district he igain officiated as Sessions Judge in the year 1904. He returned to South Cinara in 1904 as Mag strate and Collector, and in the year 1906.



Mr. J. H. Komarisos

was transferred in a like capacity to Salem Subsequently he was appointed Magistrate and Collector at Ootacamund and Additional Sessions Judge his present position Outside his official life Mr Robertson is President of the Vigira Agra-Horticultural and Game Societies and Vice Chairman of the Ootacamund Lawring Asylum

The Honourable Mr Justice C SANKARAN-AMAR, CIL Judge, High Court, Madris, born on 11th July, 1857 Educated at various schools in the Madris Presidency where he had the advantage of English teachers almost from the commencement of his studies. At the Presidency College, Madris, which he afterwards attended Mr Nayar received education at the hands of " "Messrs E

A Porter, whose reputation is great in Southern India. Here Mr. Navar was the Elphinstone prize vinner. The accurate and facile pen which Mr. Justice Nay ir possesses is in English writer is due to these advantages of education coupled with his own natural gifts. He tool his B. I degree at the Madris University passing as the first in the vear 1879 and thereafter was offered and accepted the appointment of Munsifivilies however he resigned some few months later in order to return to practice at the Bar. Here he quickly attracted notice, and vas appointed



The Honble Mr. Justice C. SANKAPAN

by the MadrasGovernment a member of the Committee appointed in 1884 to enquire into the state of Mulabar He acted also on several other commissions appointed by Govern ment to consider the question of the management of temples, the relationship of landlord and tenant etc The Malabar Tenants Improvement Bill was passed through the local Legislative Council with the ud of Mr Nayar even before he was ap pointed to that body. In 1889 Mr Nayar was appointed a Tellow of the Madris University received his nomination as a member of the Governor's Council in He was instrumental in getting enacted the Malabar Marriage Act, the one piece of social legis lation ever passed by a private member and which has introduced into India in a modified form the principle of civil marriages measure is spoken of highly Mr Nayar was one of the founders of

the Madras Law Journal and for sometime acted as one of its editors His literary labours included the establishment of the Madras Renev which he conducted for a time. In 1897 he was elected President of the Indian National Congress which sat it Amrioti, C.P. in that year He was also the President of the first Madras Provincial Conference and he is the President of the Midras Social Reform Association In 1904 he acted as President of the Madras Industrial Exhibition v hich v is opened by H. H. the Miharaja of Mysore and the Companionship of the Order of the Indian Empire vas conferred upon Mr Nivar for his services in connection with that Exhibition Amid his multifarious occupations he has found time to devote a good deal of attention to literature and has been Madras correspondent for various I ondon papers and has contributed to the Calcutta Reciew Contemporary Review, and other high class periodicals For some years he served as an elected member of the Madras Municipality. His facile pen and great learning vere utilised by Sir William Hunter who requested him to write an account of the social customs of Malabar, which he did. The paper proved of such value that it vas utilised in West and Buhler's Digest of Hindu I aw by the learned authors Before his present appointment as Judge of the High Court Mr Justice Navir brilliantly held the post of Advocate General of Madras being the First Indian appointed by the Crown to such a responsible post in India He is a leider of Hindu Society in Midias and has much interested himself in promotion of the cause of education to which he has contributed lurgely in work and donations Mr Justice Nay ir is a prominent Freemason He is a member of Gray's Inn

Ru SARVI CHANDRA SANYAL, Bahadur, MA BI, Divisional and Sessions Judge Nagpur Born at Suran in September 1861, his father being the late Rai Bahadui Gobinda Chandra Sanyal, a first grade Subordinate Judge in the Bengal Service who died in 1877 at Patha, after a short but brilliant career. The Rai Bahadui was educated at Patha and finished his education

at the Canning College, Iucknow, where he attained distinction his name being preserved in gold letters on the roll of honour in the hall of the College He took his BI degree at the Calcutta University in 1884 and received an appointment as Judicial Officer in Bengal at the hands of Justice (now Sir Henry) Prinsep, in consideration of his father's services. His own excellent services in lower grade at tracted the notice of the High Court at Calcutta which honourable body specially selected him in 1893 for the Central Provinces, when Sir Antony (now Lord) Macdonell then Chief Commissioner, indented on Bengilto improve the Civil Judiciary



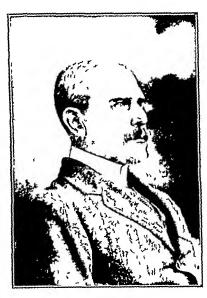
Ku Buhadur Salat Chandra Sanaai

of the Provinces This selection has been fully justified. Rai Bahadur Sanyal served with credit as Civil Judge at various centres until 1902 when he was appointed Senior Small Ciuse Court Judge, Nagpur, then considered a prize appointment in the Provincial Service. In 1903 he was appointed Divisional and Sessions Judge, Raipur, and in the year following was transferred to Nagpur in the same capacity, where he has remained ever since, having been made permanent in the grade of Deputy Commissioner.

M1 GEORGE WATSON SHAW, 1 c s , Judicial Commissioner, Mandalay, Upper Burma, joined the

service in September 1879, and arrived in Burma in December of the same year. After scrying as Assistant Commissioner in various Districts, he was posted in 1886 to the charge of the Katha District in Upper Burma As Deputy Commissioner he successively held charge of Bhamo Shwebo Amherst, Thongwa and Tharrawaddy Districts. In 1899 he was appointed to officiate as Commissioner of the Minbu Division and in 1900 was transferred to the Mandalay Division. In March 1901 he was confirmed as Commissioner of Man-In this capacity he served until February 1905 officiating for nine months in 1901 and six months in 1904 as Judicial Commissioner Upper Burma In May 1905 he was appointed Judicial Commissioner of Upper Burma which post he still holds

Lieutenant Colonel ROBERT SHORE MD, IMS Residency Surgeon, Hyderabad, Deccan Born in Ireland in the year 1856 Educated at Galway Grammar School and Queen's College Galway In 1879, he took his



Lieut Col R SHORE

M A degree, and in 1880 his M D at Queen's University, Ireland He joined the Indian Medical Service on September 29, 1883 and arrived in India May 3, in the following

veir. His first appointment was is Medical Officer attached to Stition Hospital Jullandur During his first yeu in India he served also at Quetta and Karachi, being attrehed to the 45th 5d h Regiment and in medical charge and North Stafts Regiment and in medical charge No a Cholera Camp Karachi. He remained in medical charge of various regiments till 1887 when he was placed in charge of the Kot th and Thallavar Agencies, and in the following year he was appointed Residency Surgeon Nepal In the year 1892 he was appointed Residency Surgeon Turkish Arabia, and stationed at Bagdad but returned to India by the middle of the same year to Deoli where he was stationed as Medical Officer Deoli Irregular Force Miter a pe riod of furlough he joined the Meywir Bhil Corps in 1804 and two verrs later was appointed Me dienl Officer Kotah and Jhalra prate He held charge of the current duties of the office of Political Agent Rotah, in addition to his own duties in April 1896. In November of the same year he was appointed Medical Officer Erin pura Irregular Force and in the fol lowing year received the substan tive grade of Agency Surgeon, 2nd class In 1808 he attained the grade of Residency Surgeon and was posted to Udaipur v here from July to August 1899 he held charge of the duties of the office of the Resident in addition to his own He went on furlough in 1899 and on his return was appointed to officiate as Agency Surgeon, 1st class at Quetta, and afterwards at Alwir He was appointed Residency Sur geon Udaipur, in 1902 From May 1907 to April 1908 he was placed on deputation as Medical Officer in charge of the Maharaj Kumar of Udaipur, and from that appoint-ment was transferred to Hyderabad, Deccan, as Residency Surgeon

The Hon'ble Mr PAZHAMAR-NERI SUNDARAM IYER SIVASWAMY AIYER, CIE, Advocate-General to the Government of Madras Born in the Tanjore District, Madras Presidency, on the 7th February 1864, his father being a highly respected pleader in the District He was educated at the SPG College, in his native

town whence he matriculated in 1877. Subsequently he tool his 1. A Course in the Kumbalonam College under Mr. I. Gopale Roy the distinguished educationist and



Hon Mr P S SWASWAM ANTE

his B A Course in the Presidency College Midras where he studied under Mr Edmund Thompson He took his degree in January 1882 being placed second in the first class He stood first in Sanskrit his optional language receiving the Goady Vari Naram Sanskrit prize and the Oppo Medal In History he was awarded the Gordon prize For the next two years he pursued the study of lay and took his B L degree in 1884, heading the list of successful He was enrolled a candidates vakil of the High Court of Madras on 17th April 1885 He has practised at Madras ever since In 1887 8 he was appointed Examiner in Sanskrit to the University of Madras In the verr 1893 he received the appointment of Assistant Professor of I aw at the Madras Law College which he held till 1899. He held the post of Examiner for the B L degree in 1808-09. In 1898 he was nade a Fellow of the University of Madras, and has ever since taken an active part in the affairs of the University After a close contest with the Revd Canon Sell, the rival Europe in candidate, he was elected in 1901 to represent the University in the Madras Legislative

Council and was the first Indian to fill that position He was re-elected in 1906 vithout opposition received the appointment of officiating Advocate-General of Madras in October 1907 in place of Mr C Sakmu Nair who had been appointed to act as High Court Judge His Majesty the King-Emperor appointed him permanent Advocate General on the 13th January 1908 New Year's Honours 1908, he was created a Companion of the Indian Empire The Honourable Mr Swiswimy Aver presided at the Tanjore District Conference held in March 1907 As Member of the Legislative Council he had n great share in the shaping of the Madras Estates I and Bill and other important measures From 1893 to 1907 he vas a joint Editor of the Madras Law Journal The Honourable Mr Sivasvamy Ayer is a Timil Brahmin

Dr W Γ SMEETH DSc, MA, BE, ARSM, ARCSC, FGS, State Geologist, Chief Inspector of Mines and Secretary to the Government of Mysore, India Born December 30, 1865, at Dublin, educated at Saint Columba College, Rathfarnham From 1884 1888 at Trinity College Dublin, where he took the degrees of B 1 and B E, and was Senior Moderator and Gold Medallist in Experimental Science, and subsequently took the degrees of MA and DSc In 1889 was for some time employed in the designing office of Mather and Platt, Engineers, Salford From 1889 to 1892 at the Royal College of Science, London, and took the Associateships of the Royal College of Science and Royal School of Mines Member of the Institution of Mining and Metallurgy, London American Institute of Mining Engineers, and Fellow of the Geological Society of London From 1892 to 1897 Demonstrator in Geology and Lecturer in Metallurgy at the University of Sydney, Australia In 1898 joined the staff of the Mysore Geological Department, and in 1900 was appointed to his present position

Lieutenant-Colonel JOHN SMYTH, MD, IMS, Senior Surgeon and Sanitary Commissioner to the

Government of Mysore Born 27th September 1857, at Monghan Born 27th Ireland, and educated it Monaghan, afterwards at Queen's Colleges Belfast and Galway, University College, I ondon, and Pasteur Institute Paris, &c Joined the service on 1st October 1881, his first appointment being to Netley following year he did duty at the General Hospital, Madras In July of the same year he was placed on military duty and voyaged with troops between Vadras and Ran goon After a spell of regimental duty at Madras, he proceeded to Suez with troops, returning to Bombay in September 1882 when he did duty with troops by rail to Secunderabad. He was again



Licut Col J SWYTH

on regimental duty in placed October 1852 In the following year he was appointed to officiate as Resident Surgeon, General Hospital, and Professor of Pathology, Medical College I ate in the same year he officiated as Civil Suigeon, Calicut, and in Tebruary 1894 was appointed Fort Surgeon and Medical Inspector of Seamen at Madias, and Professor of Anatomy, Medical College In 1885, he was on field service in Egypt in medical charge of F Company, Queen's Own Sappers and Miners, being awarded the medai, with two clasps and the Khedive's Star In December 1885 he returned to Madras as Assistant

Physician, General Hospital, and Professor of Hygiene, Medical College In the following year he was transferred as Civil Surgeon to Vizagapatam, reverting to his former appointment at Madras in 1887. He was appointed substantive Resident Curgeon, General Hospital, and Professor of Pathology, Madas, in December 1887 He remained in the appointment till 1892 when he was appointed to officiate as Superintendent Government Lying in Hospital, and Professor of Midwifery, Medical College He obtained his step to Surgeon-Major in 1893. He acted at Madras successively as Fort Surgeon Surgeon, General Hospital, and Profe sor of Surgery and Chemical Surgery till April 1899, when his scruces were placed at the disposal of the Foreign Office for employment as Medical Officer in charge of His Highness the Maharaja, and the Palace Mysore In 1900, he was appointed Senior Surgeon and S ratary Commissioner with the Government of Mysore, and Inspector-General of Prisons, in which expretty he acted till 1904 when he was appointed substantive Senior Surgeon and Sanitary Commissioner to Government of Mysore

In 1908, when returning from furlough he proceeded to Japan on deputation to study applied sanitation in that Empire and rejoined his duties in Mysore on 5th June of that the

that year

Major ROBERT FRASER STANDAGE, IMS, MRCP (I ond), MRCS, Residency Suigeon, Bungalore, is in charge of the Bowling Civil Hospital and the Lady Curzon Hospital, Bangalore Born in Scotland in the year 1868 Educated privately Studied medical practice from 1886 to 1892 at St Butholomew's Hospital, London where he took the Bentley surgical He subsequently held various medical appointments as House Surgeon, House Physician, and other posts at I ondon Hospitals. In 1895 he entered the Indian Medical Service and came out to India in the same year He was at first appointed to the 2nd Bombay I ancers, with which corps he served till 1897 During 1897, he was District Medical Officer on Famine Duty, and received the thanks of Government for his

At the Famine work at Sholapur end of 1807, he was attached to the 2nd Biluchis under orders for Ugindi, Eist Africa in which compugn Major (then Captum) Standage greatly distinguished himself, being present at the actions of Wruh and Jeruba He was mentioned in despitches for conspicuous gallantry at the action of M'ruh where it was accorded that when his stretcher bearers bolted he was indefatigable in bringing in wounded men from the firing line by his own excitions often on his own back and otherwise being prominent in the performance of his duties. His untiring efforts on behalf of the men both on the



Majo R F STANDACF

march, the camp and in action were very favourably commented upon. For this service he received the Uganda medal and clasp. He returned to India in 1900 and wis appointed to the Foreign Department of the Government of India, and received the post of Residency Surgeon in Mysore. He attended the Delhi Durbar and received the Coronation medal. In 1907, he received accelerated promotion to the rank of Major Major Standage has published many papers in the "Lancet," "Indian Medical Gazette" and "Journal of Gynæcology of the British Empire,"

chiefly on abdominal and gan cological surgery

Mr HENRY JOHN SIANYON C11 VD (Lieut Col Nagpur Vol. Bir it-liv Addit on d Rifles)Judicial Commissioner of the Central Provinces and Berar residing at Nagpur India He is the eldest son of the late George Walter Lud-Im Stanyon and vis born in Meerut India on the 2-nd October 1857 He was educated at the Mus-souric School at Bishop Cotton School Simla and it Wrigley's in Clipham London From the list named establishment he was called to the Bir it the Inner Lemple on the 11th May 1881 and returned to India in July of that year. He first practised at Agrain the United Provinces for one year being en rolled as in Advocate of the High Court of Judicature for that are t In May 1882 he moved to Jubbulpore in the Central Provinces, where he appeared at the Bar continuously for 16 years and established in extensive practice. He vas President of the Jubbulpore Municipal Committee for seven years 1801 07 and was created a Companion of the Indian Lipping on the 24th May 1895 for his work in that exprests In March 1897 he accepted an uppointment under Government is i Divisional Judge and from that time till 1894 served as Deputy Commissioner and Divisional and Sessions Judge Vignur Division In March 1904 he was appointed Additional Judicial Commissioner s pt, of the Central Provinces, and in August of the same year went on deputation to Amraoti is Judi cial Commissioner of Berry On the administrative amalgamation of Berar with the Central Provinces on the 1st September 1905, Mr Stan-yon returned to Sagpur to officiate as Second Additional Judicial Commissioner for the Central Provinces and Berar, and was confirmed in that appointment in November 1906 He is at present (November 1908) holding the office of First Additional Judicial Commissioner of the above territories. He also holds a commission in the Volunteer Force with the rank of Lieut-Col For seven years, 1869 75, he was a member of the 2nd Punjab Volunteer Rifles (Cadet Company), at Simla Since 1890, he has been on the rolls of the Nagpur Volunteer He received his first commission is Capturn in 1891. It step to Major in 1897, and vas promoted to Licut Colonel and Commandant of the Corps on and December 1002 In 1905 he obtained the Volunteer Long Service Medal and on the 1st January 1906 the Volunteer Officers Decoration's is conferred upon him. Mr. Stanton has alvays been a been sportsman, and has enjoyed a fair share of the excellent biggame shooting in the Central Provinces which have been his home for so many years several tigers and some good heads being among his troph is He has do us talen in ict se part in games of all lands and is consdered to be above the average of amateur blirard players. He has some local reputation as a musicain. He built a large organ for Christ Church Jubbulpore and vas Honorary Organist of the Church and vas Church for about seven years. He is also a composer of music and plays several instruments. He has folloved the modern crize and is an enthusiastic motorist On the 22nd October 1898 he married Jessie Chittenden a daughter of the late E I Goodall Isq kus one of the well known family of artists of that name

WALIER BAYNIUN STARKY Superintending Engineer Nagpur, Central Provinces was born at Spyc Park in the county of Wiltshire on March 18 1861 Was educated at the Royal Academy Gosport, and at the Royal Indian Engineering College Coopers Hill Joined the Public Works Department of India is in Assistant Engineer in the year 1883 and proceeded to India in the same year. Was first posted to Bengal Irrigation but in 1885 was sent to Buluchistan to make hill roads from thence in 1889 he was transferred to the Central Provinces Was promoted to the rank of Executive Engineer in 1898 In 1904 was entrusted with the driving up of programmes for Famine Relief Works and in 1905, was appointed Under-Secretary to the Chief Commissioner in the Public Works Department which appointment he held until promoted to Superintending Engineer in 1908 Held until recently, a Commission in the Nagpur Volunteer Rifles

and is President of the De Dion Motor Club of the Central Provinces For a term of five years he was Captain of the Nagpur Hunt Club, which is one of the oldest in India, its annals extending as



MI W B STARKY

tri back as the year 1863 youth he was a good all-round having obtained many prizes for running, jumping, boxing, and sculling, and having been Captain of the well-known Coopers Hill Football Team He now takes interest principally in pigsticking and polo Until too heavy to ride in races he obtained a fair meed of success, both on the flat and across country In fact he is a lover of the horse, in which he follows in the footsteps of his father, Mr John Bayntun Starky, who owned several good race horses in England, the most prominent of whom was the celebrated 'Fisherman,' who won the Ascot Gold Cup on two occasions

Mr JAMES WALKER, CIE ICS, Commissioner, Nagpur, Central Provinces, born at Aberdeen, Scotland, in the year 1864 Educated at Aberdeen University and Balliol College, Oxford Joined the Indian Civil Service September 14, 1886 and arrived in India on December in the same year He served as Assistant Collector and as Head Assistant Collector in the South Arcot, Trichinopoly and Godavari Districts In 1890 his services were transferred to the Central Provinces where he was appointed a substantive Deputy Commissioner in 1895 Served for several years as Deputy Commissioner of Nimar and of Nagpur In 1902, he was a member of the Local Police Committee in connection with the Police Commission Enquiry Invested with insignia of a Companion of the



MI JAMES WALKER

Order of the Indian Empire on January 1, 1904 Has officiated as Inspector-General of Police and as Commissioner in the Nagpur and Nerbudda Divisions Confirmed as Commissioner in 1908

The Hon'ble M: FREDERICK JAMFS WIISON, WICE Chief Engineer and Secretary to the Government of Madras in the Public Works Department Born at Edinburgh on the 13th January 1858, educated at Somersetshue College, Bath, and at Coopers Hill On leaving the latter institution he had a course of a year's practical training under Sir Alexander Rendel on the Victoria Dock Works and afterwards at the Leith Docks He proceeded to India to join the Public Works Department in the verr 1880 as Assistant Engineer, and

was posted at first to the Tinnevelly Division He rose through the various grades, holding charge of Division as Executive Engineer with temporary rank from 1890, till appointed substantive Frecutive Engineer in 1892 In 1891 and 1892 he acted as Engineer to the Madras Harbour Trust, and from 1896 to 1900 held the post of Assistant to the Chief Engineer for Irrigation and Under-Secretary to Government In 1902-03 after serving as Superintending Engineer, P W D, for about eight months, his services were placed at the disposal of the Madras Harbour Trust Board, in which employment he remained for nearly three years, acting as Chief Engineer to the Trust In that period he prepared the designs for and started the Madras Harbour improvement works for constructing a new entrance to the Harbour and building the north Breakwater He reverted to the P W D, at the end of 1905 on his appointment as Chief Engineer, for Irrigation, and Joint Secretary to Government, P W D In October 1906, after furlough, he received his



Hon Mr [] Wilson

present appointment of Chief Engineer ist grade, and Secretary to Government in the Public Works Department. He is a member of the Institution of Civil Engineers,

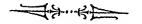
President of the Sanitary Board of Madras and Fellow of the Madras University. In October 1906 he was appointed a member of the Madras Legislative Council. The Honour able Mr. Wilson is fond of hunting and other sports and takes in interest in motoring. His clubs are Fast India United Service (London), Wadras Club and Ooty Club.

Mr C H 1 ITES Superinten dent Government Press, Stationery etc. Wysore State. Born February 25, 1850. Wr. Lates is by profession a printer and was in his early business years identified with large printing and publishing establishments in Great Britain. Later on he was engaged as instructor in typography in a Technical Institution near London. In 1903, he entered the firm of Messrs. Oakes & Co. Ld., Madras, and joined the Mysore. Government service on July 17, 1905, with the appointment.



Mr C H LATES

Superintendent Government Central Press at which practically all the printing work required by the Government is carried out. This press employs some 400 hands and all descriptions of up to date print ing operations are here carried out including type casting—stereotyping—ind hthographic—work—Mr Yites is ilso ex-officio Superinten dent of the Stamp Manufactory, and Registrar of Authorised Publications in Mysore. His duties include the compilation of the 'Mysore Greatte' in official periodical published by the Government Yites holds a first class. Honours Certificate for Theoretical and Practical Compositor's work under the City and Guilds of London Fechnical Lyamination 1888 and also a Teacher's Technical Certiherte under the same Guild. He is it present one of the Examiners for the Madras Government Technical Examinations



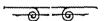
THE STATE OF MYSORE



H H SRI KRISHNARAJA WADINAR BAHADUR, CCS1, Ruler of Mysoic

race-meetings and worthdy maintains the traditions of sport and hospitality in Mysore. At Ootacamund where he spends a month or two of the hot veither every year, he is well known as a hospitable, genial host and an aident supporter of the Ootacamund hunt. He is a good horseman and a first class whip a polo and racquet player of more than average merit, and a musician of taste and ability. He is also a keen motorist drives his own cars, and handles them with skill.

The Maharaja was present with a large retinue, at the Delhi Durbar in 1903, early in 1906 he had the honor of entertuning I R II the Prince and Princess of Wales at Mysore and a the end of that year (1906) he paid a visit to Calcutte. At Agra in 1907, on the occasion of the visit of the Amir of Afghanistan, he was invested by the Vicerox with the Grand Commandership of the Star of India, an event which was made the occasion of public manifestations of joy in Mysore.



History of the State of Mysore



VIIA OF Mysom City

Mysori is a Hindu State in Southern India lying bety cen the 11th and 15th degrees > 1st and 74th and 79th degree L long and entirely surrounded by British terri-Its area including the Civil and Military station of Bingalore is 29 444 square miles. It is high-lying Find situated in the lingle where the Fastern and the Western Ghat ranges converge into the group of the Nilgiri hills. The country naturally divides itself into two separate regions, each of which has vell marked and distinctive features as to elimate, cultivation, and general appearance. Its extreme breadth from east to yest is about 200 miles, and extreme length from north to south about 230 miles. One striking physical fee ture of Mysore consists in the huge

piles of rocks known as Drugs rising abruptly in many parts to 1,500 feet above the Plateau some solitary others clustered and which are everywhere visible. Most of them have been fortified from time immemorial rendering them vill high impregnable strongholds with the advantage of an unfuling supply of vater at the summit. The Fastern Ghats form the frontier on the cist and separate Mysore from the British Provinces in the Curnatic In many parts the ascent over them into Mysore is steep, while in others it is in cisy gradient. The country rises gradually from these ghats towards Bangalore, which is situated in the most elevated portion of the Mysore platem upwards of 3000 feet above scalevel. On the north west, beyond the Chitaldrug

ringe of hills, there is a gradual full through the broad valley which leads to the Lungabhach anver neu the village of Haribar, the altitude of which above the sex is only about 1,800 feet. To the south-west by Seringapat in and Hassan there is i more marked descent abruptly terminated by the western range of ghats comprising in this direc tion the Nilgiri and Coorg hills, and further north the Manjarabad and Night ringes, known is the Malnid or hill country the chief peaks of which are loftier than those of the cistern hills. The lofticst clevitions in Mysore are on the east, Sivigring a about thirty miles from Bangalore, reaching a height of 4,550 feet, and Nundydroog, 36 miles from Bing dore 4810 feet, from whence the river Pennin takes

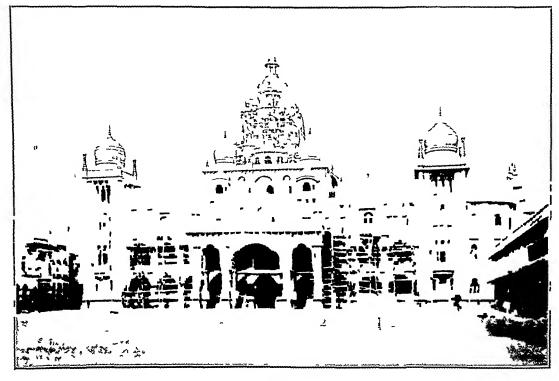
its use and the peaks of the Bellakih ingam hills in the Ashtagram division, varying in elevation from four to five thousand feet. On the west, Kuduremukha in the Nagar division 6,215 feet is one of the highest peaks in Mysore and a remarkable landmark visible from the sea as well as from above and below the ghats. There are also the Baba Bud in mount uns in the Nagar division mained after a Mahomedan saint whose tomb is on one of the peaks at in elevation of 6,214 feet, the highest point on this range being Mulainingiri 6,317 feet.

The drainings of the country with unimportant exceptions finds its way into the Bay of Bengal and is divided into three great river systems—the Cauvery in the south the Krishna in the north and the North Pennar the Palar and the South Pennar rivers, which flow from the hills in the eastern part of the State. There is a central waterparting ridge, about 3,000 feet in elevation, which separates the river system of the Krishna from that of the Cauvery. To the north of this ridge are the sources

of the Vedavati, the Junga, and the Bhidre the two list named un ting at Kudh in the Shimoga district and there forming the Tungabhadra These rivers join the Krishna in British territory South of the ridge is the bism of the Cauvery and its tributuries the Hemisiti, the Shimshi the Arkiviti, the Kabini and the Honnuhole The Canvery is it passes out of Masore is precipitated over a fall of 300 feet at Six is imudrim—ind these fills have vith nother past few years been utilised by the Government of Mysore for the generation of electric power and the machinery of the Kolar Gold Lields is worked thereby. The only river of any importance floving vestward into the Arabian Sea is the Surisvitivinch on the north-west boundary has a drop of 960 feet forming the falls of Gersoppa. Owing to its situation between the Fastern and Western Ghats the province has the benefit of both the N E and S W monsoons, and from the peculiarities of its physical features it comprises some very wet as well as some very arid tracts. The average rainfall

virus from 350 inches on the top of the Ajumbe Ghat to less than 18 inches in the districts of Hiriyar and Challake where the great Marikin ever reservoir constructed for protective purposes as practically complete

According to the Census of 1991 the population of Mysore including the Assigned Iract of the Civil and Whitary Station of Bangalore vas 5 530 390 and of these 92.05 per cent vere Hendus Mussilmins numbered 5.23 per cent and next come the Animists with 156 per cent the remaining fraction of the people being made up of Christians Juns, Parsis, 8 khs Jees Brahmos and Buddhists Of the total population only 5 per cent are literate the other 95 per cent being vholly illiterate Literacy in the English language is microscopic and is represented by 4 per cent of males and of of females Ninetvnine main castes are represented and of these only three eastes (Vakkalga Tingavet and Holaya) number more than 500 000 cach Of the entire population 34 per cent are actual workers the remain



THE MISORE PALACE

der being dependents Agriculture gives employment and support to 66 per cent, while earth-work and general labour accounts for another 9 per cent. Four per cent are employed in carrying on the work of administration, but only 2 per cent are engaged in commerce.

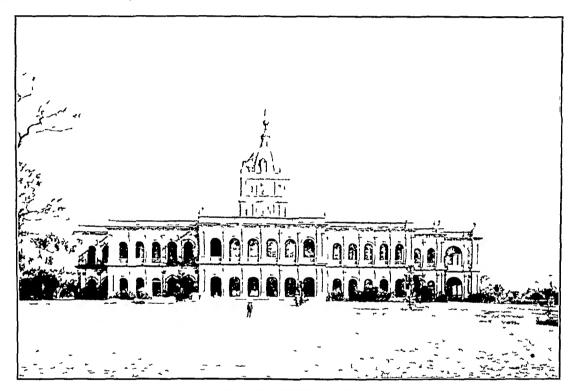
HISTORIC \L

My sore is the Premier Hindu State in India Its Hindu rajas contrived to maintain more or less independence until the middle of the eighteenth century, when Hyder Ali brought to light a mass of evidence which carries the history of Mysore with scarcely a break in the sequence, as far back as the 3rd century BC and there are tradtions, both local and general, which connect the country with the great epics of the Ramavana and the Mahabharata The labours and researches of Dr Buchanan Colonel Mark Wilks distinguished as the historian of Mysore, at which Court he was for a time Resident Colonel Colin Mackenzie, who subsequently became Surveyor-General of India

of Rajputana He was only a compiler Colonel Wilks is better entitled to be called the Todd of Mysore

Taking the historical period in India as commencing with the invision by the Greeks under Alexander the Great, the earliest event in the annals of Mysore that may be regarded is authentic is in connection with Chandra Gupta, the first of the Mauryan Kings

Chandra Gupta's grandson, Asoka third in succession in the line of the Mauryan Kings, occupies a prominent position in the early annals of



THE PUBLIC OFFICES-MYSORE

took possession of their country. It remained in his hands and in those of his successor, Tippoo Sultan until the capture of Seringapatam by the British in 1799. Mysore was then restored by Lord Wellesley to the old Hindu dynasty. Up to a comparatively recent date it was considered by even those most conversant with the subject, that Mysore had no history, was quite a modern State and virtually unknown before the wars with Hyder and Tippoo brought it into prominence. Recent researches have, however,

Dr Benjamin Heyne, and Dr Buhler brought to light much that is of historical interest. But it is to the investigations of Mr B Lewis Rice, c i E, and the information regarding the literature and ancient history of this part of India derived by him from antiquarian studies, that we are indebted for the early history of Mysore in a connected form Mr Rice, in his Mysore Gazetteer published in 1876 and since revised, did for the interesting State of Mysore what Colonel James Todd had, some years previously, done for the States

Mysore, and his remarkable Edicts have been found engraved on rocks and pillars in many parts of the country From inscriptions, dating back to very remote periods, but which have only been recently discovered, it is established that the Satavahana dynasty were among the earliest rulers in the northern parts of Mysore, although the particular centuries during which they flourished are not sufficiently clearly One inscription tells of indicated a King of this line who flourished in the 2nd century B C, while other

rulers are mentioned as having lived in the 2nd century AD. Furthermore certain Saturkanus are mentioned whose connection with the Saturahanas is not made sufficiently clear. There seems to be little doubt however that the Satarkannis were followed by the Radambas in the north-west of Mysore and this brings the meagre record up to the 3rd century AD, and from this time on the history of the country rests on a more solid basis of fact as cluedated by authentic records.

At this time the north-west of the country was as stated held by the kadambas while a part of the north was under the rule of the Rastrakutas or Rattas. The east was held by the Mahavalis and the Pallayas and the centre and south were occupied by the Ganga. These latter partially subdued the Mahavalis, and in the 5th century the Chalukyas from the north reduced the Rattas and the kadambas to the condition of feudatories. The first appearance of the Chalukyas south of the Verbudda was in the 4th century previous to

which they are said to have had fifty-who predecessors on the throne of Avodhy's but of these nothing s known in the 7th century the Chalulyas overcame the Pillivas who vere also attacked by the Gingas Eirly in the 9th century the Rittis regained power over the Chalukyas and for a short time took possession of the Ganga kingdom but restored it and formed an alliance with the Gangas, with whom also were albed the Nolambis i branch of the Pillivas established in the north east of Mysore. In the 10th century the Rutis with the Gangus gained a great success over the Cholas but the close of that century say the Chaluky is once more in the iscendant bringing the rule of the Rattas to a final endwhile the Nolambas were uprooted by the Gangas

The 11th century opened with a formidable idvance of the Cholas from the south and then began a struggle for the possession of what is now the estate of Mysore between the two powers the Cholas in the south and the Chalukyas in the north while the Gangas were for

the time being left to themselves In the course of this struggle the first independent dynasty of Mesore came into being that of the Househis who were it first feuditories of the Chaluky is The first rulers of this dynasty distinguished themselves against the Choles on behalf of the Chilulyas Out of the turmod that followed the Hoysalis gained considerable pover and large extension of territory and at a later period when they had been largely instrumental in breaking the pover of the r former alles the Chalukvas they were able to play ther part in breaking up the empire of the Cholis in the south subsequently however entering into friendly relations with the Cholis The Hoys das ruled over the greater part of Mysore and portions of the modern districts of Combatore Salem and Dharwir with their capital it Dyarasamudra modern Halebid Ther sum extended into the cirly veirs of the 14th century when a Mahom edan invasion from the Decem overthrew the Hovsala dynasty This Mahomedan inroad while it

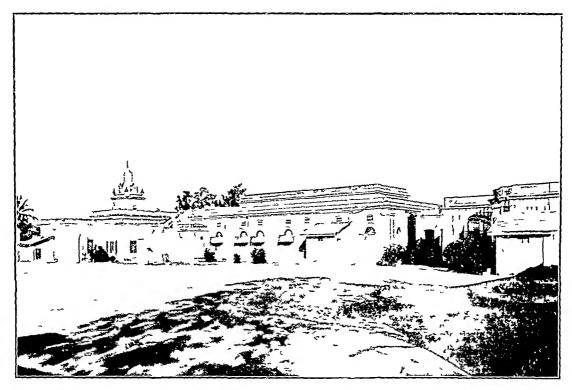


THE PUBLIC OFFICES-BANGALORE

left its effect on the history of the Hindu State, belongs by right to the history of the Deccan, for it was made at the instance of Ala-ud-din, who founded the earliest of the Mahomedan dynasties in the Deccan which received the name of the Bahmani dynasty, and subsequently went to pieces. In the vear 1310 the Hoysala king was captured by Malik Kafur, the general of Ala-ud-din, and seventeen years later the Hoysala capital was entirely destroyed by another expedition under Muhammad Tughlak.

Vijayanagar and the Bahmani kingdom in the Deccan, which led to a continual succession of wars and alliances between the two until at the end of the 15th century the Bahmani empire was dismembered and broken up into the five States of Bijapur, Ahmednagar, Golconda, Berar and Bidar In 1864 the Mahomedan principalities in the Deccan resolved to combine in an attack upon Vijayanagar and the allied armies of Bijapur, Golconda Ahmednagar, and Bidar assembled at Bijapur prepared to march south

Talikota about ten miles south of the Krishna, near Raichor. In the battle that ensued the Vijayanagars were utterly routed. The Hindu and the Mahomedan versions of the manner in which the engagement was fought and won differ very considerably but they both agree as to the main fact, that the defeat was a terrible and decisive one and that the slaughter was immense. Rama Raja was killed during the fight. The mutual jealousies of the Mahomedan allies prevented any one of them from



THE MAHARANI'S COLLECE-MISOP

After the subversion of the Hoysala dynasty a new and powerful Hindu sovereignty arose at Vijayanagar. The Hoysalas easily came under the sway of the rising power, and the province of Mysore was amongst the earliest acquisitions of Vijayanagar. The new dynasty was founded in 1336, and the site selected for the capital was on the banks of the Tungabhadra. The Vijayanagar sway lasted for 330 years, and the period was one of flourishing prosperity marred however, by the rivalry between

The Vijayanagar ruler, Rama Raja, thought lightly of the impending danger, but took prompt steps for the defence of his territory by sending his brother Tirumala Raja, with a strong force to defend the forts of the Krishna another division followed under his brother Venkatadri while the king himself brought up the rear with the main body of the army By a feint, the Mahomedan forces succeeded in crossing the river and on the 25th January, 1565, the two armies were face to face on the historic field of

extending his kingdom by the appropriation of conquered territory

This brings us to the period which saw the rise of the Mysore Rajas the dynasty which now rules Mysore During the 15th and 16th centuries the Vijayangar rulers had from time to time bestowed on or confirmed to vassal chiefs bearing various titles certain districts in Mysore and after the dissolution of the empire, following on the battle of Talikota such of these local chiefs as possessed the power began to assert their independence

The most important of these was the Wadiyar Raja of Mysore who after wiping out several petty rivals seized the Fort of Seringa patim in 1610 ousted the effect viceroy of the Vijavingar who held it, became the dominant power in that part of the country and so laid the foundation of

the present State The dynasty of the Wadwars of Mysore dates from the commencement of the 13th century when two brothers Vijava Raj and Krishna Raj came to Mysore and estab lished a rule which commencing with a few villages now comprises the whole of the Mysore territory The Wadiyar Raji who took the fortress of Seringapatam from the I nayanagar dynasty was the ninth chief in succession in his line He ruled from 1573 to 1617 and during this period he extended the possessions of his family over the whole of the south of the present Mysore district, and also captured several places of importance in the north from Jagadeva Raya one of the petty chieftans of the day Chama Raja who succeeded Wadiyar Raja further extended his territory, and by the capture of Chanapatna in 1630 absorbed the whole of the territories of Jagadeva Raya into the Mysore State, and he completed what remained for conquest in the south His policy was carried on by his immediate successors, one of whom Narasa Raja, successfully defended Seringapatam against an attack of the Bijapur forces and subsequently carried his conquests over many districts in the south east, and north Other important acquisitions of territory followed and by the beginning of the 18th century the Mysore kingdom extended from Sakkarepatna in the west to Salem in the east, and from Chiknayakanhalli in the north to Dharapuram (Coim batore district) in the south The making of Mysore was thus practically complete, and the work of organ-isation was taken in hand The direct descent in the Wadiyar line failed on the death of Dodda Krishna Raj in 1731, and thenceforth the real power remained in the hands of the hereditary General of the forces, by

whom the Rajas of Mysore were

selected

The first intercourse between the British Government and Mysore was during the struggle for the supremies of the Cirnatic at a high time Mysore was still under Hindu rulers. In this war Hyder Miwho was destined to supplant the Native dynasty by Wahomedan rule commanded a force which the Maharija of Mysore had sent to take put in the operations at Trichmopoli By intrigue and force Hyder soon rused himself to the chief pover in Mysore and eventually deposed the Handu ruler Chikka Krishna Rij Wadavir, he issumed the government of the country in 1761. Two years later the Bombiy Government concluded a commercial treaty with Hyder and in 1766 after his con-quest of Malabar Hyder confirmed all the grants and privileges acquired by the Bombay Government in Malabar

The rapid extension of the conquests of Hyder over the neighbouring districts made his pover dangerous to the peace of the East India Company's possessions in the Carnatic Therefore in the treaty concluded with the Nizim in 1766 the Company agreed to assist him with a force against Hyder Scarce ly had the treaty been concluded when the Nizam descried the alliance, and joined Hyder in invading the Carnatic Their united forces were defeated by the British and the Nizam was detached from the alliance with Hyder by the treaty of 1768 Hyder persevered with the war on his own account for some time but eventually a peace was patched up on the footing of mutual restitution of territory and i defensive alliance. It was under this treaty that Hyder claimed the assistance of the British when later on, he was engaged in a war with the Mahrattas His request was re fused, and he was forced to make terms with the Mahrattas on most unfavourable conditions Eventu ally he recovered most of the territory that had been wrested from him, but he never forgave the British for refusing him assistance, and when, in 1778, war was declared between England and France, he considered that his time for revenge had come The British had determined to drive the French from all their possessions in India,

and Chandernagore. Masulipatam Kirikil and Pondicherry all surrendered vithout a bloy. There remained to the Irench only the small station of Mahe on the Malabut coast situated in the territory of a petty chieft in who y is tributury to Hyder. The British determined to ittack William notvithstanding the threat of Hyder to retaliate by an invision of the Cirnita Mahe v is taken in 1779 and in the following year Hyder my ided the Cirnate with a large force at a time when the British vere pressed for money and troops and desp te many brilliant successes in the compagn that ensued the British were unable to effect anything decisive. On the death of Hyder in 1782 the var vas proscented with unabited vigour by his son Tippoo a ho at first received the whole-hearted support of the French But the declaration of perce between the English and Prench and the consequent vithdrawal of French troops left him too weak to prosecute hostilities alone and a treaty of peace was concluded in 1784 I ppoo lost little time in violating the treaty and in 1789 lighting vas reneved and continued till 1792 when Tippoo threw himself upon the mercy of the British and as a result another treats was concluded it Seringapatam in March 1792, by which Lippoo was stripped of half his dominions. When, three vents later host lities broke out between the Mahrattas and the Nizam Tippoo who had commenced intrigues with the French the Mahrattas, and the Nizam, almost am mediately after the treaty of Seringapatam assembled his army and threatened to join the Mahrattas igainst Hyderabad. In 1798 he sent ambassadors to the Isle of France to raise volunteers for the puriose publicly avowed and pro-claimed, of " 'sh ish from India Lord Wellesley were meffectual to induce Tippoo to come to friendly arrangements and, in Tebruary 1799, it became necessiry for the armies of the British Government to march against him The longdrawn-out struggle was terminated on the 4th of May of the same year by the fall of Seringapatam and the death of Tippoo who fell bravely defending the fortress

THE CACIODEDIY OF INDIY

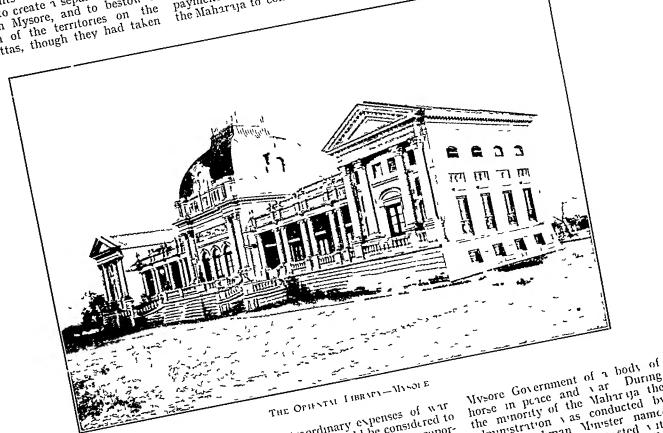
RESTORATION OF THE HINDU DYNASTY

In disposing of the conquered territories it was considered that the partition of them between the British Government and the Nizam would afford just ground of jealousy to the Mahrattas, and would aggrandise the power of the Nizam beyond due limits It was therefore re solved to create a separate Government in Mysore, and to bestow a portion of the territories on the Mahrattas, though they had taken

intentions Government concluded a subsidiary treaty with Mysore, to which ary treaty with alysone, to which the Nizam was not a party. This treaty provided for the location treaty provided for the location in the Mysore territory of a British the subsidiary force for which the subsidiary force, for which the Maharaja was to pay 7 lakhs of pagodas a year reserved to the British Government the right to assume the whole or part of the Mysore territory if there should be cause to apprehend failure in the payment of the subsidy required the Maharaja to contribute to meet

with i view to terminite their dependence on the liberality of the

In December 1803 2 supplement-British Government ary treaty was framed to effect ary creaty was of territory with Mysore, and it was by treaty that the British Government obtained undisputed possession of the districts composing the Wynard which was one of the principal which was one of the principal objects of the treaty in 1807 the sum which the Vahriaja was required to contribute use comrequired to contribute was com muted to the maintenance by the



no part in the way, on the condition that the grant should form the basis of a new treaty with them. The family of Tippoo was set aside and the Hindu dynasty was restoled in Masore under Krishna Raj m unsore under Krishna Kal Woderar, a child of three years of woderar, a child of three years of the grandson of the ruler rage the grandson of the ruler deposed by Hyder nearly forty years before years before made a party to the partition treats concluded with the Aram in July 1790 otherwise than as a recipient of the liberality of the British Government But to give effect

the extraordinary expenses of war such sum as should be considered to bear a just and reasonable proportion to he revenues and bound him to good government. The desto good government The destants of Tippoo Vadras Presto Vellore in the vere liberally dency, where they vere mutual at vellore in which they were believed to be concerned their were provided for removed to Calcutta, here they continued to reside as stipendiffies \ large sum was then capitalised 35 a provision for them, till 1860

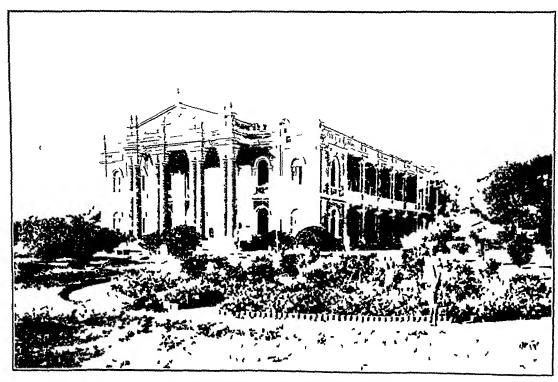
horse in peace and var During the minority of the an able Brahman Vinester named Purnant 2 ho 1 25 invested 1 lith rurnava vno vas investeu vnu full povers He continued in office till 1812, when he resigned the government of the Naharaja the hands of the Naharaja the hands of the Naharaja vs. to 1821 vis period from 1812 to 1831 marked by gross mismanagement as to the initial cause of , high there Upon that are various versions point 'e need not enter

mismanagement was there, the pay of the troops fell into arrears, cruelty and extortion were proctised, the ryots combined in resis tance and at last rebellion broke out calling for the active exertions of a large body of British troops in addition to the whole military force of the Maharaja In 1831 it became necessary for the British Government to intervene and acting upon the provisions of the subsidiary treaty the Government issumed the direct management of the State, subject to the claim of the Maharaja reserved by treaty, to a provision of one lakh of star pagodas per annum, and one-fifth of the net revenue realised from the territory until arrangements for the good government of the country should become so firmly established as to secure it from future disturbance

In 1834 the Governor-General (Lord William Bentinck) visited Mysore, and shortly afterwards it was proposed that the Maharaja should cede the districts of Nagur, Chitaldrug, and Bangalore, with as much territory as, after paying

the expenses of management, would yield a revenue equal to the clim of the Government on the Maharaja, and that the remaining districts of the province should be restored to the Maharaja under securities for good government. This proposal fell through and the government was carried on by a British Commission From time to time the Maharija made applications for the restoration of his State, which were refused on various grounds, and finally in appeal was made to Her Majesty the late Queen Victoria which ifter careful consideration was declined In 1868 the deposed Maharaja died Government the British resolved that when his adopted son, who was then only six years old attained his majority, the government of the State should be entrusted to him In 1879 it became necessary to settle the manner in which this resolution should be carried out. It was clear that upwards of 5,000,000 people who had been under British rule for lifty years could not be made over like sheep, and the conditions under which the transfer of the government was to take place were embodied in a form il instrument. The following mix be quoted is the m un conditions—(r) 1 clear d stanction must be drawn and perminently maintained between the private fortune of the Chief and the public revenues of the State a civil list of fixed amount must be assigned to the Chief and the rest of the revenues must remain as alable for public purposes only through appropriation by constituted authorities (2) There must he perminent security for the observance of established lays, rights and usages and the lays must only be altered by suitable legislative machinery (3) Provision must be made for the judicial independence of the civil and criminal courts and justice must be dispensed by regularly constituted tribunals (4) The assessment and collection of the revenues must be made under fixed rules all rights in the land must be defined and maint aned, and no fresh taxation imposed except in accordance with lav

Under the principles thus laid down, and which have been acted



THE RANGACHARLU MEMORIAL HALL-MYSORE

upon ever since, the administration was made over in 1881 to Chama Rajendra Wodeyar, the adopted son and successor of Maharaja Krishna Raj Wodeyar, he having been previously publicly installed as the future ruler of Mysore on the death of his adoptive father. One of his flist acts after he had assumed charge of his dominions was to make over to the British Government, with full jurisdiction, a small tract of land at Bangalore, forming the Civil and Military Station of

Wodeyar died at Calcutta on the 28th December 1894, leaving as his heir an infant son, and it became necessary for the Vicerov to appoint a Regent during the minority of the young Chief, the Maharaja Krishna Raja Wodeyar, who was duly installed on the Gadi at Mysore on the 1st January 1895 H H the Maharani Vani Vilasa Sannidhana, the mother of the young prince, was appointed Regent, and she, with the help of a Dewan and three Councillors, conducted the administra-

ADMINISTRATION

Regarding the ancient forms of government under the early Hindu rulers, some information has been gathered from inscriptions. The earliest of these are the Edicts of Asoka, discovered by Mr. B. Lewis Rice, and from these it is gathered that the Ayaputa or prince was in charge of the provincial government assisted by Mahamatris. Coming to a later date we find the Maha-Pradhana Sarvadhikari, or Prime Minister, at the head of affairs under a Raja or King, and with him was



II H THE MAHARAJA'S PALACE-BINGALOPE

Bangalore, and for this he received in return the Island of Seringapatam. But the most important incident of the change was the signing of the instrument of transfer by which the young Maharaja for himself and his successors, undertook to perform the conditions imposed upon him. To that agreement the Maharaja steadfastly adhered during his reign and the instrument is a landmark in the history of British relations with the protected States of India The Maharaja Chama Rajendra

tion The wisdom of the choice was shown by the ntelligence and dignity which, throughout the minority, she showed in the management of the affairs of the State. Her son received an excellent English education and careful training to prepare him for the proper performance of his future duties, and in 1902 having attained his majority he assumed direct control of the administration and was formally installed as Maharaja by the Viceroy (Lord Curzon) at Mysore

generally associated, when of sufficient age the Yuva Raja or heirapparent to the throne, and a number of other Mantris or Councillors assisted in the deliberations of state. Then followed the land settlement of the Kadamba kingdom, and the assessment under the Hoysala kings. Under the Vijay anagar rulers, some of the original ray as were reinstated in their ancient possessions on submitting to be tributary vassals to them as superior lords. They also appointed some of their own slaves and servants, recommended by their

fidelity and ability, to manage tracts of uncultivated waste country with instructions to clear away the Jungles and to bring the lands into culture, with a view to increase the population the wealth of the State, and the prosperity of the land by Rajas of My sore in the south about 1701, Chikka Deva Raya one of the most progressive of their rulers distributed the business of government into eighteen cutcherries of departments, probably owing to his having learned from his ambassadois to Aurangzebe that such was

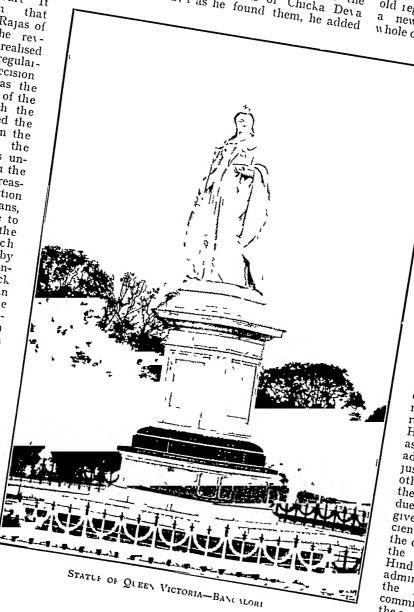
Imperial Court It certain under the Rajas of My sore the revenues were realised with great regularity and piecision One-sixth was the lawful share of the crop for which the Raja received the equivalent in the currency of the time He was unwilling to incur the odium of increasing the proportion by direct means, so had recourse to the law of the Shastras, which authorised him, by no very forced construction, to attack the husbandman by means of quite rinnets of verytions taxes, which should compel him to seek relief by desiring to com-pound for their abolition by a voluntary increase of the landed assessment Hyder Ili when he came into power follow ed generally the regulations previ ously established and the peculiar laws and customs of the difterent provinces he was at all times But accessible to com-

plaints, and never failed to pursue to its source the history of an irregular demand, and to recover it with an additional fine from amount was never returned to True it is that the the complainant, but it frequently brought about the dismissal of the offender, and, as Hyder was accustomed to say, rapacity in this case was nearly as good for his subjects and much better for himself than noie scrupulous distribution of Justice For though he left the fiscal institutions of Chicka Deva Rava as he found them, he added

to the established revenue whatever had been secretly levied by a skilful or popular Amil and afterwards detected This produced a progressive and regular increase, and the result of complaints gave occasional but also tolerably regular, augmentatione Brahmans, with the title of Harkaras, resided in each talug, to hear complaints and report to the Revenue Department Tippoo Sultan, when he succeeded his father, did not approve of the old regulations, and he introduced a new system throughout the whole of his dominions He divided

the whole into tukadıs of pagodas each, and to each of these was attached an official establishment To every 20 or 30 tukadis a cutcherry was established He dispensed with the Harkaras appointed by Hyder, and this economy contributed much to the oppression of the people

On the restoration of the Hindu rule after the death of Tippoo the the new adminis tration under the Regent Purnaiya commenced proceedings by 1 t s proclaiming an unqualified remission of all balances of revenue, and the restoration of the Hindu rate of assessment In the administration of Justice, as in every branch of the Government, due regard was given to the ancient institutions of the country and to the doctrines of Hindu law administration of Thethe revenue was committed, under the control of three Powerful Subadars,



to Amils presiding over taluqs sufficiently limited in extent to admit of diligent personal inspection of the whole of their charges Previous to this time no revenue survey of the land appears to have been made, but Dewan Purnaiya the fields to be caused all measured, though the work was but incompletely and megularly executed On the British assumption of the Province in 1831, the maintenance as far as possible, of existing native institutions, was expressly enjoined The task that then lay before the Commission, therefore, was not to maugurate a new system of government, but to reform flagrant abuses in the old, to liberate trade and commerce, to secure the people, especially the agricultural classes, in their just rights, and to develop the resources of the country generally The revenue system followed was the Ryotwari, and it was brought back as far as possible to the state in which it had been left by Purnaiya, but liberalised in all its details and vigilantly superintended in its working The system of government adopted from 1831 to 1855 was that known as the nonregulation, and the visit of the Governor-General, Lord Dalhousie, to Mysore at the end of 1855 marked the termination of the exclusively patriarchal and non-regulation system, which, under the states-manlike control of Sir Mark Cubbon and the exertions of his select body of able administrators. had achieved results beyond all praise Then followed the transition period, 1856—1862, in which a Judicial Commissioner was appointed to relieve the Commissioner of a branch of work which had attained to large dimensions Regular departments for Public Works and Education were formed, the Commission was reorganised, territorial transfers and the and changes of jurisdiction involved in these, coupled with the revision of subordinate establishments, the introduction of the Penal and Criminal Procedure Codes, and the modern financial system of Budget and Account, necessarily affected every public department In the third period of British control the government was conducted on the Regulation System,

and it was towards the close of this period that a most disastrous famine carried off one-fifth of the population of the province, extinguished the accumulated surplus balances and created a debt of nearly one crore of rupees, due to the British Government

Then came the Rendition, and when in 1881 H H Sri Chama Rajendra Wodeyar was invested with the administration of the State one of his first acts was to initiate measures for the protection of his territory against the consequences of future famines The administrative policy of the Maharaja was one of progressive decentralisation, and his rule was attended with remarkable financial success It was during this period that the now important gold-industry obtained a sound foothold in Mysore. and in 1886-87 royalty on gold formed, for the first time, an item in the State revenue The Maharan signalised the restoration to native rule by creating a Representative Assembly, composed of 350 of all classes, who, in the absence of special cause, such as plague, meet annually to hear an account of the State administration for the previous year His rule was marked by the extension of railways, the advancement of important schemes of irrigation, the development of the Kolar Gold Fields, and the maintenance of its high standard of administration The present sys tem of government is based mainly on the British Indian system intro duced into the State in the time of the British Commission The Maharaja, as ruler of the State, is the final authority, and the administration is conducted under his control by a Dewan and two Councillors. and there has recently been created Legislative Council which. together with the Representative Assembly, which has much increased in importance since the days of its institution, exercises a considerable amount of influence, indirectly, upon the doings of the Executive When the government was transferred, it was provided that all laws then in force should be maintained until altered by competent authority, new laws can only be made under a regular system of procedure, and they require the sanction of the Governor-General in Council

THL RESOURCES OF THE COUNTRY

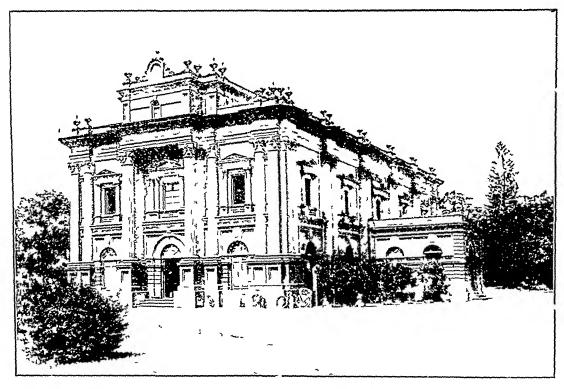
For administrative purposes the Province of Mysore comprises eight Districts Physically, however, the province naturally falls into two divisions, known respectively as the Malnad and the Maidan country The three western districts of Hassan, Kadur and Shimoga are malnad or semi-malnad, while the remaining five districts of Mysore Bangalore, Kolar, Tamkur Chiltaldrug are maidan The malnad or hill country is a land of magnifi-cent hills and forests, presenting alternations of most diversified scenery The sheltered hillsides are beautiful with waving woods, which afford shade to numerous planta-Of human habitations there are but few, and a cottage here and there, picturesquely situated on the rising ground bordering the rice-helds, and hidden amid plantations of areca palm and plantain, marks the home of a cultivator and his family The soil is fertile, and although the only cereal grown in these districts is rice, plantations of coffee, pepper, cardamoms, areca, plantains, lemons and oranges, flourish exceedingly But by far the greater portion of the province belongs to the maidan or open country division, although much of the intermediate region partakes of the characteristics of both malnad and maidan On the level plains of the north, with their black alluvial soil, grow cotton and millet in the districts in the south and west, irrigated by channels of water drawn from rivers, are the sugar-cane and rice-fields higher lying undulating tracts of red soil in the east yield ragi and associated crops, the lands under tank irrigation are occupied by gardens of cocoa and areca palms while the stony and wide-spreading pasture lands in the central parts are covered with coarse grass and relieved by shady groves of trees Roughcalculated, about 17 per cent of the entire area of the province is malnad, and the remaining 83 per cent is maidan

But although Mysore is essentially an agricultural country, the most remarkable industrial development of late years has been in connection with gold-mining, and

Mysore has now acquired a definite place among the gold fields of the world the main source of supply at present being the Kolm Gold Fields. There is ample evidence that mining operations were carried on by the natives, in a crude way from very remote times, and the workings subsequently abondoned. The Kolar Gold Field occupies a small tract of country about 60 miles from Bangalore, and is situated to the east of a low ridge in the Bowring-pet taluq on the eastern boundary of the State.

commenced operations in 1875, but hinding that large capital would be required for carrying out the work, he, with the approval of Government, transferred all his rights and concessions to Colonel George de la Poer Beresford, and this officer with some friends among racing men formed a syndicate known as the Kolai Concessionaires, and took up the enterprise in earnest. Under the original concession Mr. Lavelle was at liberty to select ten blocks of land each of two square miles in area, and for each of these blocks.

John Taylor and Sons, London, a firm of mining engineers, and there was for a time a regular boom in Mysore gold shares. Rules for mining leases in other parts of the country were drawn up on terms similar to those obtained by the Kolai Concessionaires. As regards these latter, the Government, in 1886, finding that they were realising vast sums by sale of land containing gold issued new regulations by which the Concessionaires had to pay to the Government one-tenth of the consideration for every



THE GOVERNMENT MUSEUM-BANCALOFF

locality of old workings had long been known, but it was not until 1873 that any special attention was directed to them. In that year Mr M I I avelle a retired umy officer with some I nowledge of geologi who was residing Bangalore applied to the Chief Commissioner for the exclusive privilege of mining in the Kolar District and after some delay request was granted certain terms This was the original Kolar Concession and it was limited to three years. Mr. I avelle

the Government undertook to grant a lease for a period of twenty years, reserving a royalty of 10 per cent on the value of all gold, coal etc extracted. When the Kolar Concessionaires took over. We Lavelle's rights in 1877, the term of the concession was extended, first to 1880 and subsequently to 1883, and the terms of the leases thereunder from 20 to 30 years. At the same time the royalty was reduced from 10 to 5 per cent.

By 1881 the Concessionaires had secured the valuable aid of Messrs

assignment of a lease. It was at this period that the Government had the country generally surveyed with reference to auriferous tracts and on the information thus obtained it was resolved to modify the existing rules by providing for the grant of prospecting licenses by making the grant of a lease conditional on a Company being formed within two years with a paid-up working capital of not less than £5,000 per square mile and by reserving to Government the right to limit the total area to be leased for the time being, and to

dispose of mining leases for such are cby public competition By 1895 there were thateen Companies at representing a capital of 13 500 000, and in what had previously been a desolute wiste in large and flourishing town has spring up provided with most of the conveniences and institutions of European life and finding employment for thousands of people There are at the present time about 40 square miles held under lease from the Mysore Government by various mining Companies and the industry gives employment to nearly 30 000 people of whom over 800 uc Europeans and Eurosians The ics dent il populition of the mines is about 100 000 and the amount paid monthly in salaries and wages amounts to Rs 6,40,000 Here comes in the Doom question, which oving to unsettled economic conditions is more or less reute all over India Despite the fact that in no other part of the world is it possible to find better irrangements or greater consideration expected for the welfare of the miners employed than upon the Mysorc gold-fields

the supply of labour offering is wholly in dequate and not by any means of the best

The following figures will give some idea of the position of the industry to-day The pud-up capital employed on the Kolar Gold Fields is £2 140 500 but the present valuation of that capital on the British Market is 44 796 500 The total value of the gold produced from the commencement of mining operations to the 31st December 1907 's £27 600 759 and the rovilty paid to the Mysore Government on that amount approx mates £1 571 327 The total amount pud in dividends up to the aist December 1907 st inds 1,12 019 83,

The following figures show the quantities of Quartz and In Ingsticated and of the principal materials consumed in the period 1898—1907 inclusive —Quartz caushed 5,443,295 tons. Include Ingstreamed 1,580,956 tons. Frewood consumed 1,580,956 tons. Gelatine and Danimite consumed, 6,522,207 lbs. Timber used, 6,300,755 cubic feet.

Cindles consumed 6793 415 lbs Mercury 1,504, lbs and Cy in de 1704, to lbs

Until the veir 1902 ill the much nery in the mines was vorked by stem pover but a August 100the completion of the Curvery Pover Works brought about a complete revolution in the worling of most of the manes on the field vhereby 4000 H P of electric energy was transmitted to the Gold I clds from the Cuvery I lls Pover Station. The entire success of the scheme s thoroughly emphysized by the fact that the output of the plant his been recently almost doubled n order to meet the demends of the Koler gold min na companies for the cheaper power thus afforded Provision has been made whereby the city of Binga lore which his iso ooo inhibit ints has been supplied vithlight and power over a separate sixty mile 35 000 volt transmission line In December of 1904 v s completed the second installation or extension of 5610 1 locates generator expects thus necessing the possible output of the plant to



THE IN BACH-INC OFF

7,920 kilowatts Power is transmitted at a pressure of 35,000 volts over duplicate three phase lines, a distance of ninety-two miles to the Kolar Gold Fields where it is utilized almost entirely in mining operations The Cauvery river falls are located near the site of the old Hindu village of Sivasamudram Ari ingements have been made for the lighting of the City of Mysorc. which are now under completion The city will be supplied with a light and power over a separate forty-mile ti insmission from Swasamudram The Cauvery river is the dividing line between Mysore province and the Madias Presidency At this point a fall of nearly 400 feet, giving an average calculated horse-power of approximately 12,000 during the dry serson of the year and a miximum of over 200,000 horse-power at times during the monsoon or rainy season

In 1904 a project for the supply of pure filtered water to the inhabitants of the Gold Fields was brought to completion with the opening of the Bethmangala Water Works, and the public have been provided with a Town Hall and a Civil Hospital The hall, which is known as Coronation Hall, was erected by Mr Hajee Ismail, an enterprising merchant of the locality, at a cost of 30,000 rupees, and it is frequently loaned out for purposes of weddings, receptions, and public meetings Suburbs are springing into existence, and at Robertsonpet there is a good market and some fine buildings, with branches of the businesses of some of the principal traders of Madras and Bangalore

The Manganese industry in India is of quite modern growth, dating back to only 1892, and the principal sources of supply were, until recently, Vizianagram in the Madras Presidency, the Central Provinces, and Central India Within the past few years, however, valuable deposits of manganese have been discovered in Mysore, principally in the Shimoga district, which should add materially to the mineral resources of the State Increasing attention is being given to prospecting, and new deposits are being dis-At first, owing to the covered success of the Mysore Manganese Company, Ld, there was a rush for manganese lands, and restrictions had to be imposed but in 1906 a portion of the Shimoga district was thrown open to prospectors, and as a tentative measure it was decided to permit manganese to be mined under prospecting licenses, for a period of three years without insisting upon imming leases being taken out Further consideration of the matter, however showed that where actual mining operations were to be undertaken involving a large outliv of capital, the issue of long period leases would be necessary and that the tying up of large areas under prospecting licenses was undesirable Measures are now being taken to provide for the issue of suitable leases, and to set free the large areas now held under prospecting ficenses The quantity of manganese ore obtrined in 1906-1907 was 63,181 tons of which 50,247 tons were sold for a total of Rs 10,37 got. On this imount the royalty payable to the State was Rs 20,200 \ \ \ number of heenses for working the Chrome ore that has been located in the Hassan district have been issued and prospecting operations are in active progress

The metal most widely distributed through Mysore is Iron, which is obtained both from ore and from black iron sand. The iron ore is obtained in small irregular masses by digging a few feet below the surface, generally on low rocky hills but in some places in the fields The black sand is found in the rainy season in the nullahs or channels formed by torrents from certain hills Smelting is carried on to a considerable extent in various parts of the province, especially in the Chitaldrug, Shimoga, and Kadui districts A steam iron-foundry has long been established at Bangalore, and at Chik Ballapur there is a native foundry, where sugar mills and agricultural implements are made and repaired Steel is made specially in Heggadadevankote Malvalli, Kotagiri, and Madgiri taluqs Steel wire drawing is carried on at Channapatna for the purpose of providing strings for musical instruments, and is of a quality that makes the wire sought for throughout Southern India

A decided increase has been shown in recent years in the annual value of the manufactures of the State, and these include textile fabrics, briefs and tiles, paper glass-making car pentry and turning, and the conversion of the produce of the country such as oil seeds, etc. into market able form. Oil pressing is a very generally followed calling all over the country, and is mainly in the hands of the class called Gamgas Imported Ferosine oil has hovever to a great extent superseded the oils of local production for domestic use among all classes. Oil mills vorked by steam have been established at Mysore and Bangalore The art of glass-making is prince polly of not entirely applied to the manufacture of bangles. The manufacture of soap and candles is carried on at Bang-fore where there is a ste in factory and among other manufecturing industries in a be mentioned the building of cart and the making of implements for agricultural purposes which in in agri-cultural country is in industry of more than ordinary importance coach and carriage building cabinetmaking in which the work turned out is of great excellence, copied from English designs tov-making, and sandal wood carving Channapath i is the centre of the tov-making industry, and the toys there made are eagerly bought up by Europe ins as well as by natives

The expression of juice from the sugar-cane is an important industrial operation, and the cumbrous and tedious process which formerly obtained has now been superseded in many parts by the introduction of iron sugar-cane mills which are expeditious in working, and express the juice more completely and with greater cleanliness Tanneries have been established on a considerable scale near Bangalore, and a very pretty kind of red morocco leather used to be manufactured at Harihar Among the textile fabrics manufactured are those of cotton wool, silk, and a few from fibres spinning of cotton into yarn or thread is the occupation of large numbers of women of the lower orders But before the cotton is ready for the spinning wheel, it is cleaned or separated from the seed by passing through a rude gin, and then, as it is too lumpy for spinning, it is fluffed up with a bow, which is the special occupation of a class of Musalmans called Pinjari In addition to the cotton stuffs used for clothing, the principal are tape for bedding, carpets or rugs, tent cloth and cordage. Of woollen fabrics the kamble is an indispensable article of clothing for almost all classes. Its manufacture is a characteristic industry, more especially of the Chitaldrug and Kolar districts, and of Mindaya and Hunsur in the Mysore district. For the finest kinds, made only in the Chitaldrug district, the best of which are of very high value and rarely made except to order, the fleece from the first shear-

borders, are largely manufactured in Bangalore, which is the centre of the silk trade, where raw silk is prepared in large quantities for the loom and dyed

The forests of Mysore, which yield a considerable addition to the revenue, cover upwards of three thousand square miles, exclusive of the scrub jungle which grows on much of the waste land Sandalwood, which is a product principally of Mysore and a State monopoly, is found all over the country, but grows very unequally in different

funeral pyre The wood, either in powder or rubbed up into a paste, is used by all Brahmans in the pigments for making their caste marks. The oil forms the basis of many scents, and is sometimes used for disguising with its scent articles which, being really carved from common wood, are sold as if made from the true sandal. By far the greater portion of the wood sold in Mysore goes to Bombay, whence it finds its way principally to China, France, and Germany. The great source of revenue under Forests is the sale of



THE MAYO HALL-BANCALOPE

ing must be used, and this is taken from the sheep when about six months old. The carpets of Bangalore are well known for their durable quality, and for the peculiarity of having the same pattern on both sides. The old patterns are bold in design and colouring. Silk fabrics, of stout texture and excellent designs, are made in Bangalore and Molakalmuru. Women of the wealthier classes are often richly attired in silk cloths on ceremonial or festival occasions, and these cloths, with and without gold and silver or gilt lace.

parts In colour and marking four varieties of the wood are distin guished —bili (white), kempu (red), naga (cobra), and navilu (peacock), the two last named commanding fancy prices The best parts are used for carving boxes, cabinets, desks, walking-sticks, and other fancy and ornamental articles The roots, which are the richest in oil, and the chips go to the still, while the Hindus who can afford it show their wealth and their respect for their departed relatives by adding sticks of sandal-wood to the

sandal-wood, but the sale of the various timbers with which the forests abound also affords a considerable addition to the revenue

The fruit supply of the province has always been good, but efforts are now being made to extend fruit-culture on a scientific basis, which, if they are successful, will be of great value to the fruit-growing industry, by the introduction of foreign varieties of fruit, and the demonstration of improved methods of cultivation. The fruits grown in native gardens includes most of the well-known

In course of time it was felt that a suitable Hospital, with accommodation for in-and out-patients was urgently needed in the city the result being that in August 1887 the Petta Dispensary was amalgamated with Saint Martha's Hospital which was constructed by the community of the Good Shepherd and to which the State gave land and a large sum of money for its erection and maintenance This amalgamation continued to April 1893 when, owing to the increasing demands for medical aid a separate Government Hospital was opened which was located as a temporary measure in the old District Lock-up In the meantime owing to the unceasing importunity of the then Senior Surgeon, Lieutenant-Colonel McGann, 1 M S, a suitable site for a new hospital, which should be worthy of the chief city of the State and situated in a spot within easy reach of the populous parts of the city, was, after careful consideration selected On this site the foundation stone of the new Victoria Hospital was laid by Her Highness the Maharani (late Regent), c i, in person, on the 22nd June 1897, this being the occasion of the Diamond Jubilee of Her Most Gracious Majesty the late Queen Victoria The building is a handsome and imposing architec tural structure and may deservedly be ranked amongst the finest hospitals in India, with the advantage, seldom obtainable in a city, of being situated in picturesque parklike surroundings On the 8th of December 1900 the Victoria Hospital was opened by His Excellency Lord Curzon, the institution being placed in charge of Major John Smyth The result is, in the words of Colonel T J McGann, "the present Victoria Jubilee Hospital, which, thanks to the great ability and devotion of the present Senior Surgeon, Lieutenant-Colonel Smyth, has acquired fame throughout India ''

 MEDICAL RELIEF DURING THE REIGN OF H H CHAMA RAJENDRA WADIYAR, GCSI, FROM 1881 TO 1894

In 1881 there were only 24 Hospitals and Dispensaries, but

during the reign of His Highness the late Chama Rajendra Wadıyar, from 1881 to 1894, the number rose from 19 to 114, and this shows that His Highness the Maharaja's sympathetic Government keenly alive to the necessity of bringing medical aid as near as possible to the homes of the people all over the country, and of placing medical and surgical aid within easy reach of the sick and injured in the remote and unhealthy parts of the country His Highness, fully appreciating the importance of Dufferin's Lady philanthropic movement, directed the training and employment of midwives all over the country and the opening of Special Dispensaries for Women and Children All but 3 taluqs out of 66 were provided with midwives, and 5 Dispensaries for Women and Children were opened in District Quarter Towns The great advances thus made for the relief of the sick in the State during the late Maharaja's reign, and under the sympathetic direc tion of the great Dewan, Sir K Sheshadri Iyer, are brought into startling prominence by Colonel McGann in a statement he made on the eve of his retirement from the Mysore Service The statement is as follows -

"To begin with, when I came to Mysore as Civil Surgeon in 1876, except the Jail Hospital, which does not count as far as the public are concerned there was only the General Hospital There was no Lying-in or Special Hospital for Women and Children, there was not a qualified midwife of any kind, except one, who placed a high fee on her services and who was unwilling very often to take practice under any circumstances, and, consequently, she was of little use to the people generally and none at all to the poor Early in 1877 I was transferred to Bangalore to take charge of the Central Jail with charge of the Pete Dispensary, etc, and I found a lamentable state of affairs in the Pete as far as medical aid for the poor was concerned "When Colonel McGann became Senior Surgeon in 1885, Sir K Sheshadri Iver gave him a free hand in the administration of the Medical Department and so the Medical Institutions in the State rose from 37 in 1885 to 120 in 1896 when he reverted to British Service

SANITATION

Special attention to sanitation was an important feature of His Highness the late Maharaja's reign In addition to ordinary sanitary works carried out by the various District Fund Boards and Municipalities, His Highness devoted the large sum of Rs 27 lakhs from State revenues on the improved sanitation of the capital cities of Mysore and Bangalore and of the larger mofussil towns through out the State Among the more important works which have been completed, or are approaching completion, may be mentioned (I) the water-supply and partial drainage of Mysore (2) the filling in of the insanitary ditch round that city (3) the extension of the Mysore and Bangalore Cities (4) the scheme of water-supply to the latter, (5) water-supply, drainage and extension schemes for the Mofussil towns, besides numerous drinking-water wells throughout the State

In 1890 there were only 11 midwives They worked in the Maternities of Bangalore and Mysore, going out to cases as required. In 1891, Colonel T. J. McGann the then Senior Surgeon and Sanitary Commissioner, issued a circular to all the Deputy Commissioners to entertain midwives in taluqs and to grant scholarships to women to undergo training in the Madras Lying-in Hospital. This was sanctioned by Government in March 1891

In April 1892 the order to train midwives in the Maternity Hospitals in Bangalore and Mysore was passed on the Senior Surgeon's recommendation

In August 1902 the training, and maintaining during training, of midwives in Mysore passed entirely under the control of the Victoria Memorial and Lady Dufferin's Committee, the Senior Surgeon to the Mysore Government being its ex-officio local Honorary Secretary The Government of

Mysore about this time gave is handsome donation to these funds

The following statement shows the rapid increase in the number of midwives in decennial periods from 1881 till the present time

Date		Number		
In	1881	Nil		
,,	1890	11		
,,	1900	87		
,,	1908	110		

The following details regarding the existing Medical Institution in Mysore may be of interest —

Special Hospitals

opened in the Pete in 1845. The building however, was small and badly situated and a larger one was therefore built in a more suitable spot in 1857. This, however, was also ultimately found to be in an undesirable place, and so, in 1907 it was removed to the Magadi Camp of Epidemic Hospitals.

(2) The Lunatic Asylum was opened near the Pete Hospital in 1850, the inmates being removed from a smaller place of custody which had been in existence for two years in the Cantonment. A few years later the old Pete Jail was added to the accommodation. A proposal is now before the Durbar to remove the Asylum to a healthier and less-cramped locality somewhere in the suburbs.

(3) The Maternity Hospital in Bangalore and H H the Maharanee's Female Hospital at Mysore were opened in 1880 The former owes its existence to the munificent liberality of Rai Bahadur Yella Mallappa Chetty and was transferred to the management of the Bangalore City Municipality in 1883 Miss Govindarajulu was the 1st Lady Doctor appointed as Assistant Surgeon, and in 1887 placed in charge of the Maternity Hospital at Bangalore It is now under the contemplation of the Durbar to remove it to a more central spot in the Fort

(4) The Epidemic Diseases Hospital, Bangalore, was opened on 1st July 1891 It is located at a safe distance from the Railway Station at the Western end of the city

and is available for the accommodation and treatment of cases of infectious or communicable discuses occurring among the residents of the city or imongst pilgrims and others urriving by trains from the shrines of Tirupati, Sriring im, etc. Special accommodation is provided close by for quarintining such persons when necessary, with a viev to prevent, as far as possible the introduction of infectious diseases into the City or State. When plague broke out in 1896 this Institution vas enlarged and suitible camps were provided for choler i small-pox and plague cases is well is for contacts in other contagious affections

(5) The Government Lye Infirmary When Government accorded its sanction to the opening of this Institution the present Oculist Dr 5 V Rumasumy Lyengar vide who was placed in charge, selected the 9th of November 1896, being the birthday of the then Prince of Wales, as an auspicious day for the opening of it. It is at present situated on the Lil Bagh Road, but new premises will be soon built for it in the vicinity of the Victoria Hospital on the most approved plans.

The following table gives the numbers and classification of Medical Institutions as they existed at various periods—

HOSPITALS & DISPLASAKA

1st Class 2nd Class 3rd Class

NTO

Data No

Drte No		140		N	No				
1881	3	5		16					
1894	. 3	7		90					
Year	D	Details		οľ	No Total				
State Public									
	6								
1st Class Hospitals					3				
2nd Class Hospital					6	15			
1906	Stat	te Non j	oublic		8				
-	Local Fund			11	6				
	Private	aided			3				
	Private non aided Railway Dispensary				I				
					4	132			
		GRAND	TOTAL			147			

VACCINATION AND THE VACCINE ANSITY II

Private moculators are stated to have been formerly pretty numerous in Mysore but by 1855 they had been completely deprived of their occupation by the preference given to the Government Viccinators. The latter were 54 in number and yere transferred from talul to taluk as necessary. There were 3 grides on Rs 8 10 and 12 1 month respectively. Each Vaccinator was expected to vaccinate to persons for each rupee of his ply, or suffer a proportionate fine A small money revired was given it the end of the year to the most ictive Vaccinator of each Division Under this system the number of operations increased with suspicious ripidity. It became notorious that with the connivence of the village officials, the verification lists sent in by the Vaccinators were frequently fictitious project was then formed in 1865-6 of making them work in a more systematic manner through their ringes, proceeding from village to village in regular succession and as by this method of proceeding some difficulty might be found in making up the required complement, the stipulation as to the number of operations to be performed monthly was withdrawn In 1872-3 i system of inspection by the Apothecarus attached to the Camps of Deputy Commissioners was introduced as a check which appears to have worked well There were 84 Taluk Vacconstors in 1880-1 and 4 in the Bangalore Municipality. The Medical Subordinates in Hospitals and Dispensaries also vaccinated ensure better supervision over the working of the Department and the greater correctness in the returns submitted to the Senior Surgeon,
4 Deputy Inspectors of Vaccination were appointed on the 26th March 1886 is a tentative measure for the Districts of Bangalore, Tumkur, Mysore and Shimoga The Vaccinator was required to leave with the headman or Patel of each village, a list showing the number of children vaccinated by him in the village and the date of

his visit to that place This enabled the Deputy Inspector of Vaccination to test, with the help of the Patel, the correctness of the Vaccinator's returns

Animal vaccination was for the first time introduced into the State in 1884 by the importation of a vaccinated calf from Madras into Bangalore, and again in 1885 the lymph was distributed all over the Province. It was, however, found difficult to replenish the stock of vaccinated calves, owing to the antipathy of the natives to lending calves for the purpose even on payment. The Vaccine Institute was started on the 14th March 1892 in a side building in the District

Lunatic Asylum premises In it, vaccine and King's lanoline vaccine paste are now scientifically prepared, stored and distributed to the Vaccinators and Deputy Inspectors of Vaccination

CHEMICAL AND BACTERIOLOGICAL LABORATORY

Prior to 1897 the Civil Surgeon of Mysore was the Chemical Examiner to the Government of Mysore In July 1897, Dr M Strinivasa Rao, MA, MD, BSC, was appointed as Chemical Examiner and Bacteriologist to the Government of Mysore Early in 1899 the Bacteriological laboratory

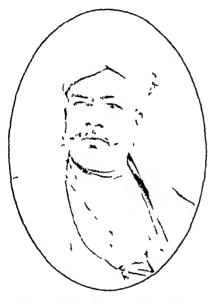
was opened and it is now one of the finest and most completely equipped Laboratory of the kind in India

THE PUBLIC HEALTH DEPARTMENT

In August 1903 Lieutenant-Colonel John Smyth, Officiating Senior Surgeon and Sanitary Commissioner, laid before Government a scheme prepared by Colonel P H Benson, for a Health Department on the lines set forth by Colonel W G King at the India Medical Congress, but it did not come into operation till 1907 after the present Dewan Mr V P Madhava Rao, himself a keen sanitarian, assumed control of the Government

C 25 6 3 20 0

Mr T IN INDA ROW BY
Dewan and ex officio President of
Council Mysore State Born at
Irix indrum, Irax incore May 15
1852 Mr Ininda Row is the son
of the late Raya Sir I Madaya
Row, is est formerly Devan of
Tray incore, and who also filled the



The life Rigit Sir T. MADALL ROW

important positions of Devan of Indore State and Dewan of Baroda State Mr Ananda Row received his education partly at Pache ippa s School at the Presidency College it Madras but chiefly at Maharan's College, Trivandrum whence he graduated in 1871 After leaving College, he was for about a year employed in the office of the Madias Board of Revenue, learning official work, and qualifying himself for the post of Deputy Collector He was then engaged at Indore as Tutor to the Princes, sons of the late Maharaja Tukoji Row Holkar, but the climate not proving congenial, he availed himself of an opportunity which presented itself to him and entered the Mysore State Service in November 1873, at first as an Attache, Mysore Commission In 1874, he was appointed Assistant Commissioner, in which capacity he served at Bangalore, Kadur, Mysore, Hunsur and Hassan, and was invested with the powers of a Magistrate of the First Class in 1877 At Mysore, he was in charge

of Pilice Establishments for a years during the late Military's minority and also after his installation in March 1881 In 1886 he was promoted to Deputy Commissioner and District Migistrate, and m 1889 v is made Chief Secretary to the Dev in of Mysore H s next step was to the position of Director of Agriculture and other Statistics in Mysore in 1807 in which expicits he also served is Census Superintendent in connection vith the Census of 1901. In 1904 he vis appointed Revenue Commissioner and in March 1906 First Member of H H the Militripiles Council and finally in March 1990 he vis appointed Dev in of Mysore and exoffice President of Council Mr. Aninda Row is a BA of the Midris University

I MBDULK MRIM Deputy Conservator of Lorests Son of the late Mahomed Ish isim Schib Daroga Born at Lumkur toth November 1853 and educated at Bangalore Central College and School of Engineering and Natural Science in the same city. He joined the Mysore service in the year 1878



Mr. I. ABDU KALIM

as Apprentice Assistant Conservator of Forests and rose to Assistant Conservator in April 1882 In 1887 he was appointed Assistant Superintendent, 2nd class, in charge

of Mysore Revenue Survey 1894 he rose to be Deputy Conservator of Torests 3rd class reaching the 1st class in 1899. Mr. Abdul Karim has passed the FA I sam nation of the Madras University. He has a diploma from the local school of Engineering and Natural Science Bangalore is Assist and Conservator and his passed the Revenue Survey Department d. I xamination and the local Service Revenue and Crim nal Examinations He is President of the Managing Committee of the Government Hindu stim Carls School in the etrof Bingalore and Association of the Milhomed in Orphanige of the Anjum in-Islam a Association and of the Anjuman School in the C vil and Military station of Bangalore is also President of the local Branch of the Millomedin Educational Association of Southern India and a Member of the parent Association of the same at Madris as well as of various other Madris and Bangalore Mahomed in Associations

Mr P > MINTELL RNO 1 MS Superintendent and Medical Officer Bangalore Jail Government of Mysore Born it Bangilore in the vent 1857 and educated at the London Mission High School and Central College Mysore In the year 1884 he took his degree of LMS at the Grant Medical College, Bombay and in April of the same year v is appointed Assistant Surgeon and Lecturer at the local Medical School, Bangalore By the end of the same year he was transferred is Assist int Surgeon to Mysore from thence he was placed in charge of Hassin District. He remained in this charge till 1889 when he obtrined the appointment of Chief Assistant to the Senior Surgeon and Sanitary Commissioner Mysore In 1891 he was promoted to Civil Surgeon and posted to the Shimoga District Six years later he was transferred to the Mysore District and placed in charge of the General Hospital and Mysore Jail He did, duty as Civil Surgeon and Chief Plague Officer for five or six years, and in July 1906 received his present appointment While in Vivsore District he was the Superintendent of H H The Maharani Hospital, he was also a member

of the Municipal Local Fund and the Improvement Trust Boards He is a Freemason and member of Craft Lodge in Mysore of which he was W M for two years



Mi P S ACHIUTI RIO

Companion Chapter Eureka I odge, of which he was P Z for one year, Member of the District Grand I odge as well as District Grand Chapter Mr Achyuta Rao is a linguist, reading and writing no fewer than seven languages. He acted on two occasions of six weeks each as the Senior Surgeon and Sanitary Commissioner and ex-officio Inspector-General of Prisons

Dr T V ARUMUGAM MUDA-LIAR, MB, CM, Medical Officer in charge, Victoria Hospital, Banga-Born April 10, 1861, at Hosur, Salem District, educated at Central College, Bangalore, and Madras Medical College He took his degrees at the latter College in 1887 and joined the service in September of the same year as an Assistant Surgeon He was placed in charge of the duties of the Civil Surgeon, Mysore, and Superinten-* dent of Mysore Jail and Her Highness the Maharani's Hospital, for a short period in 1891 From December 1891 he regularly officiated as Civil Surgeon at Mysore, and in 1893-94 officiated as Superintendent, Mysore Jail, and in charge of Her

Highness the Maharani's Female Hospital, and Chemical Examiner In June 1897 he was promoted to Civil Surgeon, substantive rank, and posted to Shimoga, taking charge of the jail at that centre Dr Arumugam Mudaliar was inspecting medical officer at Harihar in June 1898, and in August of the same year placed on plague duty in Bangalore, and then deputed to Mysore to organise plague measures In October of the same year he reverted to the duties of Civil Surgeon at Shimoga, again taking a spell of plague duty at the end of that year and beginning of 1899. He was appointed Resident Medical Officer of the Victoria Hospital on the 6th he held that of February 1901 appointment until the 11th of September 1905 when on the appoint-



Di T V ARUMUCAM MUDALIAR

ment of Lt-Col J Smyth, MD, IMS, the then officer in charge of the Victoria Hospital, as Senior Surgeon and Sanitary Commissioner with the Government of Mysore, he was made Medical Officer in charge of the Victoria Hospital, which post he still holds

Mr HARMASJI JEHANGIR BHABHA, MA, Fellow of the Universities of Bombay and Madras Born in 1852, he took his degree in January 1869 from Elphinstone College, Bombay, where he had won the first Senior Scholarship the year before In 1870 he was Latin Reader of Deccan College, Poona, and in January 1871, he took the MA Degree in English and Latin, and



Мг Н Ј Внавна, м а

was appointed Senior Fellow and Lecturer in English and Latin in Elphinstone College Bombay In 1872, with only ten months before him, he went to England and compe ted in the following year unsuccessfully for the Indian Civil Service After his return from England he was appointed to act as Assistant Professor of Latin in Elphinstone College, Bombay, and in November 1876 was appointed Vice-Principal and Professor of Mental and Moral Science in the Central Col-Bangalore In December 1876 he was appointed Fellow of the Bombay University In 1884 he was appointed Principal of Maharaja's College, Mysore Under his Principalship the College won a high position among colleges of Southern India at the University examinations In April 1800 he was appointed Education Secretary to the Government of His Highness the Maharaja of Mysore His official designation was altered to Inspector-General of Education in Mysore in 1895 As head of the Education Department he has worked hard for the last eighteen

years to improve the efficiency of every branch of the department. He brought the Mysore Department in a few years into line with the most advanced areas of British I summary of the progress of the department is given in the chapter on Mysore. In 1803 he was appointed Fellow of the Widris University He is a member of the Board of Studies in Teaching and m 1905 he was chosen as a member of the University Commission for the inspection of colleges. During his furlough in Europe in 1906-07 he was deputed to study the systems of elementary and higher elementary education with special reference to Kindergarten instruction and manual training Since his return from leave he has organised kindergirten instruction chiefly in Girls' schools and Sloyd training in connection with nine High Schools in Mysore, with the help of the late Miss Lucy R Latter Assist int Superintendent of Method, London School Board, and Mr Gustaf Larsson Principal Sloyd Training School, Boston, Mass U S A

K S CHANDR \SEKH \R \
AIYAR, BA, BL, Secretary to



Mi K S CHANDRASI KHARA MIYAR

the Government of Mysore, General and Revenue Departments Born August 2, 1869, educated at St Joseph's College, Trichinopoly, Presidency College Madris and the I in College Madris He ob tuned his B A degree in 1889 gain ing a first class in both languages and mathematics. He headed the list in the examination for the BI degree in the veir 1892 In July of the same vear he passed first on the list in the competitive examination for the Mysore Civil Service, and was appointed Probation irv Assistant Commissioner at Bangalore. In August of the same year he was attached to the Chief Court of My sore, and in September transferred to the Legislative Secretary's Office In 1894 he was placed in temporary charge of the Munsiff's Court Hassin and in 1895 placed again on general duty at the same centre He'v is promoted to Assist int Commissioner and class and appointed to act as Assistant Secretary to the Government of Mysore General and Revenue Departments in 1898 shortly after being promoted to the 1st class with the same appointment In February 1904 he was again promoted to Deputy Secretary to Government in the same Department which post he held till June 4 1906 when he received his present appointment is Scretary to Govcriment in the General and Revenue Department He acted as District and Sessions Judge on two occasions in 1904 and 1905, and acted is a Judge of the Chief Court of Mysore for nearly ten months from June 1907

Mr JNAN SIRIN CHIKRI VARTI, MA FRAS, kavyananda (literally the delight of the Sanskrit Muse) was born at Chandernagore on the 12th June, 1875. The name of his father the late Ru Biresvar Chakravarti Bahadur, is well known as that of the eminent educationist of Chota Nagpur From his early school days Jann Saran displayed signs of great and versatile intellectual capacity, and his education was, therefore carefully supervised by his father and his eldest brother Mr Siddheswar Chakravniti, MA, BL, himself a distinguished scholar Jnan Saran's school days were divided between the Ranchi Zıla and the Hughli Collegiate schools, and the whole of his billiant college career was spent in the Presidency College, Calcutta He enjoyed the highest grade of

Government scholarships through out his College course, and obtained numerous med ils prizes certificates etc., amongst which were the Govahar Gold Med il the McC am Silver



Mr. J. S. CHAKLAVAKTI

Medal the University M A Silver Medal the Tagore Gold Medal, and the Mouat Gold Medal Within twelve months of his obtaining the M A degree he carried off the Premchand Roych and studentship of Rs 7000, the highest prize in the gift of the Calcutta, or any other Indian University, and was soon after warded the Elhott Gold Medal for Scientific Research by the Asiatic Society of Bengal

In July 1896, Mr Chakravarti iomed the professorial staff of Canning College Lucknov In April 1897, he was transferred to the Hughli College where he relieved the learned Dr W Booth of his charge of the BA and MA classes in Mathematics. In May 1898, Mr Chakravarti joined the Indian Financial Department as a member of the Enrolled list, in which cap icity he held charge of important branches of the Accounts offices of Rangoon, Allahabad and Calcutta In 1908 he was sent, as Comptroller and Financial Secretary to the Government of Mysore, from Calcutta to Bangalore, where he is also the Secretary to the Mysore State Life Insurance Committee, the Government Director of the Bangalore

Woollen, Cotton and Silk Mills Co, Ltd, and the Managing Director of the Mysore Spinning and Manufacturing Co, Ltd

Chakravartı's Amongst Mrscientific and literary productions may be mentioned the series of papers "On the General Cartesian Equation of the Second Degree" published in Indian Engineering His paper on 'The wastage of gold in the manufacture of jewelry in Bengal" drew much attention, and now forms a chapter in the standard work on Hindu Chemistry by Professor P C Roy, D sc, Ph D His paper on "The Theory of Thunderstorms'' was the Elliott Research prize essay His essay on the Bhagavad-Gita prefixed to his father's metrical English translation of the work (London Kegan Paul Trench Trubner & Co 1906) has been propounced to be a work of sterling merit by distinguished critics Mr Chakravarti's Sanskrit and Bengali articles and poems are too numerous to The title of Kavyananda mention on him after was conferred a competitive test in Sanskrit verse composition held by the conductors of the Sanskrit Chandrika in 1897

Lieutenant-Colonel J DESARAJ URS, Chief Commandant, Mysore State Troops Born in Mysore on 12th November 1862 Educated at the Mysore Royal School under Colonel Malleson who was his guardian as well as guardian to H H the Maharaja of Mysore He received military training with the 12th Lancers In 1884 he was appointed Attache to the Military Department doing duty at Mysore, but in the following year resigned the service and joined the 3rd Madras Light Cavalry as Jemadai on probation In 1886 he proceeded to Burma on active service, and in the following year was confirmed in his rank as Jemadar rising to Subadar at the end of the same year when his services were lent by the British Government to the Mysore State, by whom he was appointed Assistant to the Military Secretary and Aide-de-Camp to His Highness the Maharaja In 1890 he resigned the British Service After four years he was placed in command of the Imperial Service Regiment, Mysore Lancers, and obtained his step to Lieutenant-

Colonel, Mysore Army, later in the same year. In the following year he was made Aide-de-Camp to Her Highness the Maharani Regent, and in 1896 appointed to officiate as Military Secretary and Commandant of the Mysore. Troops He was confirmed in this post in 1897 and



Lt -Col J DESARAJ URS

appointed to his present post of Chief Commandant, Mysore State Troops, immediately after Colonel Desaraj Urs is widely known as one of the keenest sportsmen in south India He takes great interest in horse racing, and has a fine stable of racing ponies and horses, and has carried off many cups and trophies all over India He is also a distinguished polo player, one of the best, if not the best, in India, and member of the famous Mysore Polo Team who have won many tournaments and have numerous cups and trophies to their credit. He is a sportsman in every sense of the word Colonel Desaraj Urs is connected with H H the Maharaja of Mysore by marriage, being his brother-in-law

Mr DALVAI DEVARAJ URS, Inspector-General of Police, Mysore Boin on March 28, 1857, and adopted by Dalvai Nanjaraj Urs He belongs to the Kalale family, famous in the annals of the Mysore Ursu (Kshatriya) community His ancestors were the Dalvais (Comman-

ders-in-Chief) of the Mysorean They played a very 1m-Armv portant and prominent part in the extension and consolidation of the Mysore Territory during the seven-teenth and eighteenth centuries A scion of the house, Nanjaraj was in command of the Mysore Troops that came to the aid of Mahomed All during the siege of Trichinopoly by Chanda Saheb in 1752 famous Hyder Alı commenced his soldier's career under the patronage of Dalvai Nanjaraj The Honourable East India Company, after the storm of Seringapatam by the British and the downfall of Tippoo Sultan, conferred on Dalvai Veeraraj another member of the family, a 3,500 pagodas per stipend of annum, and this allowance is still enjoyed as a palace stipend under favour of H H The Maharaja of Mysore The bridge over the Kapani at Nanjangud, known as the Dalvai Bridge, was built by Dalvai Devaraj Urs, one of the ancestors of the subject of this sketch This Dalvai Devaraj was the brother Dalvai Nanjaraj, mentioned above, and was the minister of the Maharaja Over this bridge runs



Mr D DEVARAJ URS

the Mysore-Nanjangud railway line Mr Dalvai Devaraj Urs was appointed to the Mysore Commission as Attache on February 11, 1878 He was made Assistant Commissioner of the 4th class in November 1884 He served in virious capacities in the Revenue and Police Departments during the succeeding years till in July 1898 he was appointed Deputy Commissioner After ten years he received the appointment of Inspector-General of Police, Mysore, in March 1908

DISVRAMASWAMATAFAGAR MD IRCPAS (Edm) LPPAS (Glasgow) Personal Assistant to Senior Surgeon and Government Oculist Bangalore Born in Mysore 15th October 1863 Educated at Central College Bangalore and Maharaja's College Mysore and Medical College, Madras whence



DI S V R IVENCAP.

he passed out in 1888 as a graduate in medicine He gained his Edinburgh and Glasgow degrees in 1890 On 26th October 1892, he joined the service and was appointed Assistant Surgeon at Bangalore In 1893, he was appointed Science Teacher in H H Maharani's Girls' School, where he remained a year, reverting to Bangalore as Assistant Surgeon and Chief Assistant to the Senior Surgeon in charge of Government City Hospital in August 1894 From October 1894 to January 1805 he was in charge of the Leper and I unatic Asylums, and Maternity and Medical Stores as well In May 1896, he was transferred to Chikmagalur as officiating Civil Surgeon. In August 1896, he returned to Bangalore and was placed in charge of the Central Jul and in the following veir did duty is Surgeon in the Lie Assist int Infirmary In the same year he vis appointed Oculist and vas placed in charge of the duties of Civil Surgeon and Medical Officer, Central Jul in addition to his own He trivelled ill over duties India in 1901 collecting statistics on exesight in school children For this service he was a unded the M. D. degree - He v rote various theses on excesight. In the year 1906 he was appointed Personal Assist int to the Semor Surgeon and Government Oculist Burga-His studies of the eye vere carried on under Drs Argyle Robertson (I dm.) Juler, I rost and Morton at London, Fuchs (Vienna) Herschberg of Berlin and Parkenstcher, Wiesbaden Dr. Ivengar has a good Misonic record. He was initiated at Lodge Bangalore in December 1896 In 1900 he vas the first Indian who was made the W M of this I odge He is P M Lodge Bangalore P M I odge Hiram No 82 of Mark M Masons P P Z of Eureka Chapter 1043. and P. N. of Antiquity Royal Ark Mariners, and P District Iunior Grand Descon of Madras, and P District Standard Bearer P District first Assistant Sojourner

Mr MYSORE NARASARAJ KANTARAJ URS, Deputy Commissioner, Mysore State Government Born September 20, 1870, at My sore He is descended from the Kalale family, well known in the annals of Mysore According to tradition the family is of Kathinwari origin and descended from the members of a Yadava tribe who emigrated from Dwaraka in Kathiawar in the middle of the 14th century AD, and settled themselves at Kalale, a village in the State of Mysore, some six miles south of Nanjangud, which is a famous place of pilgrimage in south India, and at present the Southern terminus of the Mysore State Rulway The chieftrins of this race were important people from early times, ruling over fifty villages, with Kalale as their capital Kantha Wadiyar, the first Chief,

1373 AD, v is succeeded by Mallaright Wadiy ir alias Krishni Widivir, 1385 AD. Then in regular succession appeared Kintha Wadivir and three others, 1416 VD Hiri Millirgi Widwar 1510 AD Hummarya Wadiyar 1512 AD Karifal Willimge Widner, 1611 Thomas is a Waday ir, 1660, Nirise Urs Middur Chilla Kinthe Urs Middur Krishne Urs Kinthe Urs who married Katta Gopalaryn Urs's diughter Chendin i Ammanni sister of Maha Mathusti I d shm imm inni, who signed the treity of Seringipitam in 1799 Nirise Un who mirried Bettidiskote Gopularaja Urs's daughter



Mr. M. N. KANTARAJ UKS

Kempa Inkshmi Amminni, sister of Maha Mathusri Ramavilus Sannidhana, Kanthe Urs Narase Urs. the last named being the father of the present Kantharaj Urs by Kempa Nanja Ammanni, second daughter of Kapadi Veera Raja Urs, Swami of Malvilli Matt As with their kinsmen the Wadiyars of Mysore, these Chiefs were the vassals of the Vijayanagar Kings The Ummathur and Yelandur, Chiefs were their contemporaries, with the former of which they were at inveterate enmity, while the latter were their friends and kinsmen The great Raja Wadiyar of Mysore having acquired Seringapatam in the year 1610 \D invited Kurikil Millunga a member of this ruling family and a nephew of his own to come to Scringapatam and accept the responsible duties of "Dalayah" or Commander in-Ch ef of the troops, in 1616 VD The family are Kshatrivas by caste and Vaishnavite Hindus in religion Narisaraj Kintharaj Urs had the misfortune to lose his father when he was an infant in his second year but was carefully brought up by his mother v ho personally directed his culy home education in vernacular and Sanskrit. This lady is of remarkable ability and great credit is due to

her for the able manner which she brought up her fatherless children, the eldest of v hom was the lady v ho v as subsequently desfined to become Her Highness the Maharani Van -Vilas San nidhana ci, of Mysorc the consort of His H ghness the late Sri Chamarajendra Wadiyar Bihadur, GCSI. and mother of the present Maharaja of Mysore His

Highness Sri Krishnar ija Wadiyar Bahadur, (CSI The youngest Kantha Ammanni, child. made an excellent match, being married to Nanjaraja Urs eldest son of Bala Urs of the well-known family of Mugur, who held the title of "Sarvadhikiri" or Heid of Finance and Revenue a title as old as "Dalavahi" Kinthi Amminni died in 1901 leaving two sons and three daughters, her elder son Balaraja Urs born in January 1890, now representing the elder branch of the family The son Narasara Kantharaj Urs, who was the second child, was sent for his English education to the Royal School, Mysorc,

an Institution established for the benefit of the members of the ar stocratic families of Mysore in the cirly seventies of the last century This school being abolished in 1882, he joined the Militaria's College. whence he matriculated and passed the F A Examination of the Madris University in 1800. The young m in hearing of the fame is in educationalist of Dr William Miller, LLD, CIF then proceeded to Madris to prosecute his studies for the BA Eximination under that gentleman at the Madris Christian College. He passed this examination with distinction taking a first-class in English and a very



"JAVA LAKSIMI VILLAS MASOLI RISIDINCI OF MR. KANTARAJ URS

high place in the optional subjects of History and Political Leonomy, in the year 1892 93. He took his degree in the following year being the first member of his community attain the distinction His Highness the late Sri Chamirijendra Widiyar Bahadur (CSI, nominated him a Probationary Assist int Commissioner (Schedule B) to the Mysorc State Service in November 1894 and in the following year he was appointed to the responsible post of Assistant Private Secretary to Her Highness the Maharani, CI, Regent of Mysore He held this position until 1800 in which year he was appointed Special

Assist int Commissioner, Bingilore He was again transferred to Mysore in 1000, and in 1001 appointed Special Sub-Divisional Officer of Chamarainnight. In the following year he ighin returned to Mysore with the appointment of officiating Deputy Commissioner and ifter two years on July 1st 1904 vis made subst intive in the grade of Deputy Commiss oner. In 1906 he vas confirmed as Deputy Commissioner third class ind in July 1907 promoted to the second class in which grade he continues to serv in Mysore up to the present time. In 1899 he v is invested with the powers of a second class Magistrate and in 1900 with the

powers of a first-class Magistrite Hε has since been invested with the povers of Sub-Divisional and District Magistrate He has passed the Revenue Criminal and Civil Examinations. Parts I and II of the Mysore Local Service Examinations Mr. Narasara Kintharij Urs is a member of the Mysore Legislitive Council He is ilso President of the Mysore Municipal

Council, and was appointed Chairman of the Mysore City Improvement Trust Board in March 1908 He is the Chief Sudar of the Mysore State and has precedence of all Durb uces on all State occasions except the Dewan for the time being It is his privilege to present "ittir and pan' to Their Highnesses the Maharaja and Yuvaraja on behalf of the Durbaices in all Durbais He attended the Delhi Durbar in Junuary 1903, and received the Silver Medal marded to all notables in memory of that occasion In Tebruary 1897 he mairied the first Maharaj Kumari Silmati Jaya Lakshmi Ammanni, the eldest sister

of His Highness the Maharaja of Mysore and has issue one daughter boin Sovember 7, 1908. His residence is in the Fort Mysore Outside of his official duties Mr Nirisaraj Kanthirm Urs is the President of the Ursu Gymkhana Club of which His Highness the Maharaja is Patron and His Highness the Yuvarija Vice Patron He is also Vice-President of the Mysore Cosmopolitan Club The name "Urs" borne by the subject of this sketch is a title appended to the name of every member of the community to which the Roy il Family of Mysore belongs The term is a Kanarese word meaning "King or Ruler ' and is also used in this sense in the other Dravidi in languages It corresponds to the word "Singh" or "Sinh" appended to Ruput names "Row" to Mahratta numes ind word "Raja" is also prefixed to this word occasionally. Thus Narasa Raja Urs or Narase Urs, Kantharaja Urs or Kanthe Urs Mr Narasaraja Kantharaja Urs is the owner of the splendid mansion known as "Jaya Lakshmi Villas" This fine edifice is situated on a high ridge at a distance of about two miles to the west of the city of Mysore and commands a fine and uninterrupted view of the country all round Between the grounds of the mansion and the town there is a fine sheet of water in the form of a lake known is kukkerhalli Kere The estate covers an area of over 800 acres As 15 the prevalent feature of the scenery in the State of Mysore, the grounds are undulating ridges and valleys, alternating and greatly enhancing the charm of the view Judicious planting of trees has been in practice for some years which will in time found an extensive park, giving the grounds the appearance of an English country seat The mansion itself is made up of three different buildings, but so connected as to give the whole the appearance of a single massive structure The main building has a large number of spacious rooms on the ground floor, and four suites of rooms on the first floor, and is situated at the north end of the block. To the south of this extend two extensive

sets of during apartments, one of which is reserved for the lenung These apartments extend southeist and south-vest and igain turn off south vest and south cast thus enclosing at their extremities a third building occupied by the maid-servants who are in imme drate attendance on the Maharan Kumari and the other ladies of the Zenana. The finest views of the minsion are obtained it the eastern and vestern sides which graced with ornimental pediments, extend a length of nearly 100 feet. On the pediment at the northern clevation is placed a beautiful moulding of Gajalakshmi the Hindu goddess of vealth and hip piness. The outer fieldes of the mansion are embellished with Ionic and Coranthian columns with corresponding entillatures and Doric arches connecting the main block with the wings the interior decorations, especially in the dining rooms, are of purely Hindu style The general plan of the building exhibits an open quadringle in the centre, thus allowing plenty of light ind ur to reach the inner apirtments which, placed behind spicious verindahs, enclose the quadrangle on all sides. The main building is on esimilar plan but the front of the quadrangle is covcred over, providing a fine reception hall nearly 40 feet high, and the back portion known as the Bhuvaneswari, is similarly covered ind surmounted by a dome with a gilt finial on top In the Bhuv ineshwari there are some fine caryings to be seen. The doors, windows, almirahs and pillars supporting the dome are all richly carved and fine specimens of the ancient Indian art of carving which now-adays is becoming more and more displaced by bricks and mortar The mansion is chiefly built of brick and mortar, timber and iron, stone having been dispensed with on account of the great delay which it would have involved. There are several smaller buildings which serve as out-houses to the main part of the mansion At the northeast is the Agrahar or quarters for Brahmins, and the Karohatti or cow-stall Lying on rising ground at the north are the stables, and at

the north-yest the quarter for high ciste Hindu servents and others. In addition to these the old Kebbekatte Bungalov known is the Chittaring in a Michall constructed in the time of the lete Miharija H. H. Krishnaraja Wadivar III forms upart of the property. This has been fitted with idditions and improvements and serves as the guest house of the mansion. I meroads in the grounds connect the several buildings and the grounds include the old Hink il Ruce Course which with its past ddition d 1550(131:01)5 GALLS interest to the demesn. The total cost of the property vas seven laklis of rupics

STP N KRISHNA MURTI Kell lite Prine Minster of Mysore is an hereditary nobleman of this important State being a direct descendant in the mile line of the famous Purnaya Mter the fall of Tippu Purnaya was selected by the Duke of Well ngton (then Sir Arthur Wellesley) to rule Mysore during the monor ty of Maharaja Krishnarija Widivir, the grindfather of the present Chief who was invested with ruling power in August 1902 Sir Krishna Murtienjoys the estate given by the British to his incestor for virious good services in the Mahratta and other wars of the early sears of the nineteenth century. He thuseom bines in his person interesting traditions which recall the past glo rics of British military provess The consolidation of Mysore after the confusion created by the downfall of the Withomedin Government was the handwork of his ancestor and on this account the family to which Sir Krishna Murti belongs enjoys special regard both in the of Mysore as well is the public

Sir Krishna Murti was born in 1549 and on finishing his University studies he was given an appointment in 1870 in the higher ranks of the State service. Mr Lewin Bowring who was then Chief Commissioner seems to have been impressed with the young man's capabilities, for in his "Eastern Experiences" he makes mention of him as fit to be the Dewan of Mysore when it was restored to native rule, in



Sir P N KRISHNA MURTI, KCIE

event which is some of our readers may remember took place in 1881 when the fither of the present Maharaja was installed on the throne after a period of fifty your during which the country was under British administration At the time of the rendition how ever Sir Krishna Murt's youth stood in the way of his elevation ind he had to wait to become the first minister of the State till Mr Rangacharlu and Sir Sheshadia Iver made way for him twenty veirs later. In Maich 1901 when Sir Sheshadia Iver (that "remarkable statesman" as I ord Curzon designated him because of the way to him to have a state of the states o nated him) resigned the appointment on account of ill-heath Sir Krishna Murti was immediately chosen as his successor and by this time he had filled all the higher appointments of the State gathered much experience and ripened his wisdom

Mysore, in common with other Native States and suffered much from party strifes and intrigues, and the new Down openly set himself against these. In one of the earliest speeches delivered by him after his elevation to this office, he declared that he looked upon all those cmployed in the State service as brethren employed for the furtherance of Mysore and that he would make no distinction whether the employees were natives of the State itself or belonged to other parts To this rule of conduct he scrupulously adhered during his term of office with very wholesome results

In January 1903 he accompanied

to the administration

the Maharaja to Delhi and was present at the Imperial assemblage It was here that the title of K C I E was conferred on him, and he attended the grand ceremonial held by Lord Curzon in the Moghul Palace at Delhi when the insignia of the title was presented to him Sir Krishna Murti's period of office was marked with many measures of progressive administra-Among the many wise and statesmanlike measures carried through during his term of office may be mentioned the institution of the Gold Fields Water-Supply the introduction of the Local Boards System, the passing of the

Municipal Regulation, the reorgan-

ization of the Judicial Depart-

ment and the Educational Inspec-

to the the encouragement afforded to co-operative enterprise in the passing of a Regulation and the appointment of a Special Officer the Mysore City Improvement Scheme, the revival of the Minor Links Improvement System the encouragement of industrial schools and of technical education and the introduction of a number of valuable financial reforms. The liberal attitude of Sir Krishna Murti even in times of financial stringency towards industrial enterprise particularly with reference to the expinsion of the Cauvery Power Works was particularly noticed at the time

In social life Sir Krishna Murti commands much influence and this influence he oves not so much to the high office he held as to his noble lineage and his own high personal qualifications is the first subject to the Miharaji. In pirting His Highness, while acknowledging in in autograph letter the success of Sir Krishlia Murti's administration in a large number of matters of the utmost concern to the present and future welf ire of the State not only expressed the hope that the counsels of his most distinguished subject would be is ulable to him even in his retirement, but also expressed his full recognition of the services rendered by Sir Krishna Murti to three rulers of Mysore in the person of himself his revered father and hs mother H H The Miharani (late regent) and of the consideration due to him as the head of a family most honorably connected with the history of the State during the list hundred years

Mr Justice P S KRISHN \ R \ O Ru Bahadur, 1 A, BI, Judge, Chief Court Bangalore, was born in Cuddalore (Fort St. David), in the year 1856 After a preliminary course of education in the local Zilla School, he joined the Kumbakonum College in 1869 when Mr Porter, the veteran educationist of Southern India, was the principal After τ distinguished career in that College of five years, during which period he was the recipient of a Govern ment scholarship, he graduated in He practised as a pleader in the mofussil courts for some years and then joined the Law College at Madras, with a view to get himself enrolled as a vakil of the High

Court In the lay class he carred off all the prizes besides vinning the Morela ad scholarship and when leaving the Liv Collège he vas ivarded a first class certificate of Profesency in I is the tool his B. I. degree in 185, and vas enrolled is exakil in 1884. He prictised for two years in Madris and was then appointed Registrar of the Resident's Court in Bingdore 1890 he served the Mysore Govern ment first as Assistant Commissioner and then as Sub-Judge. 1891 he reverted to the Breish service as District Judge Civil and Military Station of Bangalore v high appointment he held with credit for



Mr. Justice P. S. Krishaa Kao

15 years. In recognition of the long and mentorious services rendered by him is District Judge the title of 'Rai Bahadur' was conferred upon him as a personal distinction and he was further awarded a certificate of ment on the Delhi Durbar day (1st January 1903). In 1906 the Government of India lent his services to the Mysore Government by whom he was appointed to be a Puisne Judge of the Chief Court at Bangalore, an appointment which the still holds.

Mr Krishna Rao comes of a respectable family. His ancestors served the British Government with loyalty and distinction during the last century. His great grand-

father held the position of Pundit Sudr Amin (Sub-Judge) from 1820 to 1832, and his grandfather who succeeded his own father as Pundit Sudr Amin on the latter's death, filled the responsible office of Semor Pundit in the Madras Sudr Adalut Court (High Court) up to 1847 Mr Krishna Rao's father, after rendering more than thirty years' service, retired as Judicial Sheristadar in 1883, and is now enjoying his retirement in Cuddalore Mr Krishna Rao has four sons, one of whom is employed in the Mysore Service

L KRISHNA RAO, Assistant Commissioner and Superintendent of Police, Bangalore Born at Shimoga, December 15th, 1862, and educated at Shimoga College He joined the Mysore Government service in 1879 with the appointment of Munshi, and rose through the various grades till, in 1890, he was appointed Head-quarters Inspector, Kadur District, obtaining two years later the appointment of City Inspector of Police

In 1894 he was transferred to Bangalore as Inspector in charge,



Mr L KRISHNA RAO

City Police, Bangalore, officiating as Assistant Superintendent of Police, and in 1896 he was promoted to the substantive rank of Assistant Superintendent of Police, sub protem, which was confirmed in 1898

In that year he was placed on plique duty at Bangalore 1901 he attained the grade of Superintendent of Police and received the appreciation of Govern ment in the detection and prosecution of the Goribidny-Naddagiri dacoities, also a similar mark of approval for the good work he did in connection with Police arrangements on the occasion of the vis.t of H E the Viceroy to Mysore, and for praiseworthy efforts in the detection and prosecution of cattlelifting gangs of Korchais In 1904 he was appointed Assistant Commissioner at Tumkur, and Government in this year recorded with satisfaction the appreciation expressed by Mr T Taucett, Deputy Inspector-General of Police in Madins on special duty, of the work done by him while on special duty In 1905 he attained his present grade of Assistant Commissioner and Superintendent of Police, both 1st class, and was given his present appointment

F S KRISHNASWAWI IYER, BA, MB & CM CIVIL Sur geon District Medical and Santary Officer and Superintendent of Jails, Mysore Born at Erode, Madras Presidency, in the year 1863, and educated at Native High School, Madura, and Kumbakonam College, and subsequently at the Madras Medical College He joined the Mysore Service on June 4, 1888 with the appointment of Sub-Assistant Surgeon, doing duty at St Martha's Hospital, Bangalore In the following year he was promoted to Assistant Surgeon and stationed at Hassan, doing duty at the Civil Hospital, Kadur In 1890, he was placed in medical charge of the Kadur District, and from June of the same year acted as ex-officio Vice-President, Hassan Town Municipality In 1893 94, he was placed in charge of the Civil Surgeon's duties at Shimoga, and in the latter year returned to Bangalore in medical charge of the head quarters establishment In October of the same year he was promoted to the and class and went on duty with the Dewan of Mysore on a northern India tour On the conclusion of this tour he returned to his former appointment at Bangalore In 1898,

he was appointed Health Officer Bangalore, and in 1899 Special Plague Officer, Kolar Gold Fields returning at the latter end of that year to Bangalore to work in the Bacteriological Laboratory He



Di E S Krishvishvin Iver

was promoted to Civil Surgeon 3rd class in 1900, and acted as Chief Plague Officer and Health Officer Bangalore in that year From 1901 to 1906, he was Civil Surgeon at the Kolar Gold Fields returning to Bangalore as District Medical and Sanitary Officer in the latter year In June 1907, he received his present appointment of Civil Surgeon and Medical and District Sanitary Officer, Mysore In the performance of his duties as Medical Officer he has travelled through Ceylon, Burma, and a great part of northern India with Sir Seshadri Iyer, late Dewan of the Mysore State Mr Krishna swami Iyer is invested with the powers of a 2nd class Magistrate

Mr M G KRISHNASAMI RAO, BA, Vice-President, City Municipal Council, Mysore son of Musahib Gungadhara Rao, Palace Service, Mysore Government Mr Krishnasami Rao's family have been identified with the Mysore Service since the latter half of the 18th century and one of his ancestors, Buche Rao, held an appointment second to that of the Dewan during the reign of Sri Krishna Rajendra

Wadiyai III At the time of the restoration he was entirested with the charge of the Political and Financial Departments by General



Mi M G KRISHNASAMI KAO

Harris Both Buch man and Wilks make ment on of Buche Rao's faithful service to the State

Mr Krishnasami Rao vas born at Mysore city on August 11 1870 He received his education at the Maharaja's College, Mysore and graduated from the Madras Christian College with the degree of Bachelor of Arts in 1800 Subsequently he studied at the Presidency Law College, Madras and joined the Mysore Civil Service in 1896 as a Revenue Probationer Two years later he was appointed Deputy Amildar, and officiated as Amildar, 4th class at Yedatore He did duty in this capacity at various centres till advanced to the substantive grade of Amildar in 1901 Five years later, he was appointed Assistant Commissioner and Vice-President, Bangalore City Municipality He was ex-officio Secretary to the New Extension Committee In 1908 he was transferred to Mysore as Vice-President of the City Municipal Council and ex-officio member of the Board of Trustees for the Improvement of the city of Mysore

Mr B T KUMARASAMI NAK BA Deputy Commissioner at Bungdore in the year 156; and educated it the Untril College in the sime city. In 1885 he fool his BA degree at the Madris University. In the same year he joined the service is a Revenue Probationer in the following you receive the appointment of Deputy Am ldar He served in this cipiety of Malvall and other centres till 1880 when he was promoted to Amaldar. In 1891 he vis appointed Probationary Assist int Commissioner and placed on special duty in connection v the advincing loans for the construction of Irrigation vells in the Bing dore District In 180, he was promoted to Assist int Comm ss on 1 4th cles and n 1898 served for etime as Superintendent of Police subsequent to which his services were transferred to the Revenue Department In 1907 he vis given the officiating appointment of Deputy Commissioner and District Wigistrate at Chickmag thur



Mr B J KUMALASAMI NAIK

In 1908, he received his present up pointment as Deputy Commissioner of Bangalore and President of Ban galore City Municipal Council

Mr H LINGARAJ URS Durbar Baksh Palace of H s Highness the Maharija of Mysore Born in the Mysore Province in the veir 1855 Fducated at the Royal School, Mysore City under Colonel Malleson and Sir James Gordon guardeins to H. H. the late With regrof Mysore Mr. Japaraj Crs. has been in the



Mr. H. LISCALLY U.S.

Palice service for the whole of his active life. He was originally appointed in January 1880 to supervise all dutes in connect on with the Palice cattle and Gajasala Deportments, and noddition to his dutes in the teopie ty he visialso appointed Officer in visting to the Royal Canaly of Mysore. He vis further appointed Durbar Bakshi in September 1805. His duties entailed his attendance at all festivates ceremones etc. contingent on State entertainments durbars and other ecremonal occasions. Mr. Linguitz Instituted in all his appointments.

Ru Bihadur MANEPANDA MUTFANAH Conservator of Forests Misore State Born October 2, 1855 in Coorg of a well-known family. He is the son of a luge landed proprietor. He received his education at Mireary Central School, and Central College Bingalore, and joined the service as Probationer Forest Department Coorg in 1878. He served in the Sub-Assist int Conservator's grade until 1889 when he was promoted to Assistant Conservator and passed through the grade of Extra Deputa Conservator of Forests, till the

year 1901, when his services were placed at the disposal of the Mysore Government, by whom he was appointed Deputy Conservator of Forests, in December



Rai Bahdr M MUTTANNII

1901 he was promoted to Conscivitor of Forests and Secretary to the Government of Mysore in the Forest Department. In July 1904 he was appointed Conservator of Forests, Mysore, and stationed at Bangalore. Title of Rai Bahadui conferred in 1899.

Mr M NARAYAN RAO Officiating Excise Commissioner and Fx-Officio Commissioner of Stimps, Mysore Born at Mysore City, November 23, 1854 Educated at the Wesleyan Methodist School and Central College, Bangalore Narayan Rao received his Mr first appointment in Government service at the hands of Colonel Hill, late District Judge, Mysore Government Service This was in the year 1871, and the appointment was that of Clerk in the Deputy Commissioner's office, from which by the year 1876 he had risen to Munshi in the Mysore Chief Commissioner's office From 1876 to 1879 he acted as Head Clerk in the Famine Commissioner's office during the time of Sir George Flliott and was placed on special duty during that period. In the year 1886 he was appointed Re-Commissioner Assistant attached to the Dewan's office In this capacity he served till 1891 when he was appointed to offi-ciate as Under Secretary to the Dewan of Mysore, and in 1894 was placed on special duty in charge of the Statistical Office \(\) year later he was appointed Deputy Commissioner, sub pro tem, an appointment which was shortly after made substantive. In this grade he attrined the first class in 1905 and served ull 1908, when he was appointed to his present office as Officiating Excise Commissioner Mr Narayana Rao was invested with the powers of a 1st Class and Sub-Divisional Magistrate in 1894 and District Magistrate in 1895

Mr H NANJUNDARAJ URS Superintendent Amrut Mahal Department Service of H H the Maharaja of Mysore Boin in Mysore in the year 1858 Educated at the Royal School, Mysore, under Colonel Malleson the guardian of the late Maharaja where he remained for the completion of his education until he joined the

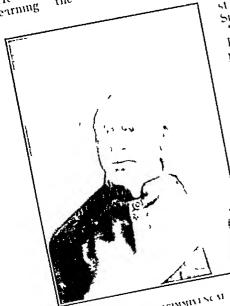


Mr H NANJUNDA RAJ URS

service on August 1, 1880 His first appointment was as Attache to the Military Department, Bangalore, where he remained five

years being transferred in a similar capacity to Mysore in 1885 the year 1888 he was appointed to officiate as Revenue Assistant Commissioner, an appointment that was made substantive in 1891 remained in this post in charge of Muzrai and general duty, till he was made Vice-President of the Mysore City Municipality in 1894 He was appointed special officer for the purpose of assessing houses to be demolished in Mysore City in 1900 In 1902 he was appointed Superintendent Amrut Mahal Department and at the end of the same year placed in charge of the Palace Controller's duties which he held till February of the following year when he reverted to his appointment as Superintendent Amrut Mahal Department, which he has held ever since. He was invested with the powers of a 3rd class Magistrate in 1889, 2nd class later in the same very and 1st class in 1002

Mr VARIYUR NUGGEHALI N AR ASIMMIA ENG AR, Member Legislative Council Mysore State Born in the year 1842 Son of Narasimmiyengar of Tumkur who held high office under the British Government before the transfer of Mysore to the native Royal line of Princes This gentleman by his sterling character earned the affections of the people, and is still remembered by the sobriquets of "Dewan" and "Yajaman He lived to a green old age revered and loved by his countrymen and respected thike by the British Government and his sovereign son Mr V N Narasımmıyengai obtained his education at the Mission English School at Tumkur subsequently attending the Government High School at Bangalore, which has been since converted into the present Central College Even in his early years, he was marked by a keen desire to obtain knowl edge, his particular interest being English literature He left school at the age of eighteen, it being his father's wish that he should enter the service of his country. In March 1860 he obtained the appointment of Revenue Munshi in the Superintendent's Office of the Chitaldrug Division, as it then was After less than a month, he was made Trushitor in the Residence Department He was spredilt pro moted to Reseauc Sherist idir and in 1864 icted is Public Prosecutor He served with credit in this post the encomiums of the earning



Mr C N Nikishaminen

European heads of the Department, until 1867, when he was appointed to the Mysore Inam Commission

18 Assistant Commissioner Ins operations extended over eighteen operations of this post he again Taluks In this post he again earned the repeated commendations of his superiors In the year 1877 he was transferred to the Revenue Department as General Assistant Commissioner, 3rd grade, and subsequently placed on Famine Duty sequently placed on rannie Buty as Special Relief Officer By his services in this post he carned the thanks of the Chief Commissioner thanks of the Chief Commissioner He also served as Special Test Census Officer after the great famine Census Omcer after the great famine of 1877 In 1879, he was appointed In 1879, he was appointed to the Shipper of the Shipper He held this post until the year He held this post until the year appointed 1883 when he was He also Session Judge, Mysore The held this canacity in the officiated in this canacity in the Session Juage, Mysore He also ficiated in this capacity in the Nundidroog Division, and in He then he resigned the service for four formalized in the service for formalized in the service for formalized in the service formalized in the service for formalized in the service for formalized in the service formalized in the service for formalized in the service for formalized in the service formalized in the service for formalized in the service remained unemployed for four years In the year 1890, however, years in the year royo, nowever, to conduct the he was selected to conduct the Provincial Census In the perform-

THE CACLOLIDES OF TABLE mee of this duty he content inth the movement and assignify and the report left nothing to be desired He was wirmly thanked for this work by both in Indian and the Note of more in the His report Mysore model of good virting by was a model of good virting to which he infused his into the dre structics, which he had to handle Sir Sheshidri Ner declired that This statistics decidedly spale The Covernment was the rect to pres in order in 1802 condon my the break of service on account of men of ar susanmerens and controller was that of palace (outroller was a some from palace). held by Mr 1807 to 1904 when he finally re-fired In this capacity he showed ibility ind much homness detecting make morning manners maccing and prictice, and putting restor to corruption wiste and jobbers officeral arrangement of the restored to the control of the restored to the restored t error influence for good v hich he exerted in Wester during his long exerced in assort during my long the life was the chief of in arrust bind of true patriots who by their uprightness, libility sterling worth pared the vin for the gradual trinsference of their beloved find of Mysore from

British idministration to their own Royal line and throughout this was effected by cordial sympathy and co operation with the British and co operation with the prinsh the goodwill of their rulers. a bright example to Indians in general veterins such is the general vetering such the con-Narasimmiyengar were the old Narasimmiyengar were the old necting links between intro administration and the new, intro administration and the new, introducing the system and experience and experience of the former into the latter with of the former into the latter with excellent results both Eastern and both Eastern and western, and is a profound English Western, and is a profound to the scholar In Sanskrit he is one of the most learned men now alive. As is most learned men now alive As is to be expected from 7 mm of such to be expected from a man of such attainments, Mr. Narasimmiyengar list imbued with the most liberal principles, both social and religious principles, both social and Oriental well versed both in Oriental and Occidental theology, he has long sought to loosen the trammels of Hindu conventions He was the first among the Brahmin caste of which he is a member to promote countenance and popularise inter-Also the first to perseeve and repudiate the iniquity of sect dining

densing ten de education and his doughters were the first in the Prov mee to pursue culture even after they become ever and mothers The var also the first to repudite child mar iges for girls and curred his breeches into briefice pe deliring the nuptrils of his dinghters long after the neng the Heart also the first in Mesore to promote and connect med servoring for Undus Athon Josing their Ciste Mins of his relative, have taken Journey Sover & Sand been received by their ciste fellows on their return, The has been tense in they and other social reforms during his long the and has been helped to success by his immense condition is vell is he the respect and library of his Countrymen among hom he has Commercial to lighten their self imposed -bunds

Mr P PMPL IM& DIH Deputy Santary Commissioner and Inspector of Architical Bandie Inspector of Augmentation Denker for Born it Irwandrum the cipital of Travancore Pater of November 2 College Trivandrum, Mahariya's College Trivandrum, November (College Vadris and King's Medical College Vadris and King's



Di L LN PI

College, London He also pursued his studies in Paris, Berlin and other centres of learning on the Continent centres of ical mile on the Continent of Europe He entered public ervice in 1890, under the Government of Madras, as Medical Superment of Madras, selected by the Mysore Durbar to start and work a Vaccine Institute for the State He joined the Mysore service on the 20th September 1891 and started and worked the Vaccine Institute at Bangalore so efficiently that not only the Mysorc State but also several Districts of the Madras Presidency and other parts of India and Burma got their supply of Vaccine therefrom While holding the appointment of Superintendent of this Institute he also worked in the Medical Department proper of the State, in the St Martha's Hospital Lunatic and I eper Asylums and in the Medical Stores In August 1804 he was placed in sole sub-charge of these Institutions He continued in these appointments till August 1898 when on the first outbreak of plague he was selected for the responsible post of Superintendent of Plague Camps in Bangalore City On the subsidence of plague that year, he was deputed to England where he obtained the D P H of Cambridge In 1900, he returned to duty at Ban galore and served as Health Officer of the city, in which appointment he continued till the middle of 1905. In 1902 he was appointed ex-officio Vice-President of the City Municipality In 1905, he was given the provincial appointment of Personal Assistant to the Sanitary Commissioner to the Government of Mysore He performed the important duties of this post until August 1907 when he was promoted to his present office as Deputy Sanitary Commissioner and Inspector of Vaccination In this capacity he is also a Member and Secretary, Central Sanitary Board Mr Palpu is a Fellow of the Royal Institute of Public Health, and a Member of the British Medical Association, London He has studied as special subjects-Bacteriology, Serum Therapy, and Tropical Medicine, in London, Sudbury, Paris, Lille, Berlin, and Rome

intendent of the Government Spe-

cial Vaccine Depot, Madras and was

soon promoted to be the Senior

Superintendent He was next ve in

Mr K P PUTTANNA CHETTY, second Councillor to His Highness the Maharaja of Mysore Born 28th April, 1854, and educated at the Central College, Bangalore Entered Government Service in the

year 1875 and served till 1864 in various branches of the Public works and Railway Administra-In that year he was appointed Traffic Superintendent Mysore State Railway In 1886, his services were lent to the Southern Mahratta Railway Company left radway service in 1886 and was appointed Assistant Commissioner on Police duty at Shimoga In 1891 he was Superintendent of Police at Bingalore and in charge of the Railway Police in addition to his other duties. In 1896 he was appointed a Revenue Sub-Division Officer and a Magistrate of the 1st class and in 1898 Deputy



Mr K P PUTTANA CHITTS

Commissioner and District Magistrate, Kolar, being shortly afterwirds transferred in the same cipacity to Bangalore where he was also ex-officio President of the Municipal Commission Here he had a great deal of work in connection with the first outbreak of pligue in the Bang flore city and district. In fact, he was specially brought from Kolar to deal with the situation, at that time very critical He managed affairs with great tact to the entire satisfaction of the Government and the people In addition to this distinction Mr K P Chetty was the first Indian gentleman to hold independent responsible office on any Indian Railway when, as above mentioned, he served as Fraffic

Superintendent until the line was leased to the Southern Mahratta Railway It was at that time that he first came prominently into public notice Sir Sheshadir Iver, KCSI, appreciated the abilities shown by him so highly that he took him into the administrative department of the public service at the expiry of his railway service. It was in recognition of his uniform good work as a District Officer that in 1904 he was specially selected for the charge of the Kolar District with its gold mines and the vast interests of the European population. He was very successful in his administration of this important centre Mr Chetty takes a keen interest in all public matters connected with Bangalore, but his strong point as an administrator has always been his sympathy with the humbler classes, with whom and the general public he is very popular. He is known as the friend of the ryot. He is interested in promoting Kanarese literature The introduction to the history of the present ruler of Mysore in "Rulers of India Volume II'' is from Mr Chetty's pen He was appointed to the Mysore Council in 1906, and is a representative Mysorean

Mr B P R \GH \V \LL \ \IDU ACE, Executive Engineer, Palice Division, Mysore State Born on September 19 1852 Educated at the School of Engineering and Natural Science, Bangalore, where he received the diploma of \ C E In the vegr 1871, entered the service of the Madras Government in the Medical Stores Department He took three years' leave and resigned the service after passing his examination. In August 1878 he entered the service of the Mysorc Government as Apprentice Engineer, Bangalore Division From December 1892 he officiated is Executive Engineer, being confirmed in this grade in 1898 During his service he has been engaged on many special works of considerable magnitude, including the construction of very large tinks at Barankanave, Marikanave, He was sent on deputation to Calcutta, Delhi, Agra, and other places in Northern India to study architectural designs for the

new palace, under construction in 1901, 1902 and 1903, remaining about a month each time. The special work in connection with the improvement of Mysore was also placed under his charge. He was concerned in the erection of nearly all the public buildings and Bazars in Mysore City. Extensions, parks and large architectural buildings were also designed and carried out by him. He was put in charge of the building of the new palace at Mysore in 1897, to replace the former building which had been to a certain extent destroyed by fire. The demolishing of the remains of the old structure



Mi B P RACHAVALU NAIDU

and the building of the splendid new edifice is his work. He was responsible for the building of the Marriage Pavilion in 1000, for which he was awarded a bonus of a month's pay by the Government, and the Maharaja was morcover so well pleased with the work that he presented Mr Raghavalu Naidu with a gold watch in open Dirbar At the installation of the present Maharaja, Mr R Naidu was in charge of the construction works for the reception of Lord Curzon, and did his work so well that the Maharaja granted him a large increase in his personal allowance and presented him with a handsome diamond ring. He designed and

built the show case for the exhibits at the Franco-British Exhibition of 1908, and for which he was presented with a Diploma of Honour He was also awarded a silver medal by the Madras Tine Arts Society for the exhibits sent from the Palace Division Mysore, and a gold medal by the Indian Congress Exhibition, held in Bombay in 1904, for the Palace Division exhibits He retired from the Mysore service on the 26th January 1909

Mr Justice 5 5 SETIUR, Judge, Chief Court, Bangalore Born July 21, 1862 He is a member of the Sri Vaishnava Vaishnava Brahmin Community of Mysore The family came to Mysore and settled at Seringapatam in the 18th century. Mr. Setlur's father was Setlur Singlengar who ifter a period of highly approved services under parts of the Madris Presidency entered the service of the Mysore Government as Marhamat Bakshi or Engineer in Chief and retired as Anche Bukshi or Postmastei-Gener il in the year 1867. His extensive cosmopolitan charities which are still administered in Tirupati North Arcot, and in several parts of the Mysore State, have rendered his name a household word in Mysore Mr S S Setlur graduated in arts from the Presidency College, Madras. in January 1887, and after undergoing a course in the B Sc Examination under Doctor Cook of the Science College, Poona took three years later his I L B degree at the Bombay University He won Judge Spencer's prize as well as the Arnold Scholarship by being placed first in the Presidency and also first in Hindu Law In the venr 1892 after passing the necessary examination he was enrolled an Advocate of the Bombay and Madras High Courts For four years he held the post of Professor of Law in the Government Law School (University), lecturing on Hindu Law He also held the appointments of Examiner for the High Court examinations, and Examiner in Kanarese for the Bombay University, of which he is a Fellow He is also a member of the Royal Asiatic Society Mr Setlur has, among other avocations of a busy literary life, long been associated

with the journ distic profession, and was the Bombay correspondent of the Madras 'Hindu'' He also contributed to the Law Journal of the Bombay Presidency, dealing with important questions of Hindu Law The "Indu Prakash," an Anglo-Mahratta Journal published at Bombay, had in him in excellent Editor of its Linglish columns. One of his best papers was a learned reply to a disquisition on the origin and growth of the Bengal School of Hindu Law by Mr Justice S C Mitter of the Calcutta High Court, published in the London Law Quarterly Review, edited by Sir Edward Pollock, the eminent jurist



M1 Justice S S SETLUR

Mi Setlui takes a keen interest in the advancement of Sanskrit knowledge and is himself a Sanskrit scholar of ability. A translation of the Mitakshara, the leading Sanskrit authority on Hindu Law, which, his scholarship in English and Sanskrit gives him a special qualification to translate is in the Press, and is espected to render an important addition to the extant literature on the subject

Mr D SITARAMA RAO, Chairman of the Board of Trustees for the improvement of the City of Mysore, and Superintending Engineer, Western Circle, Mysore Born in Krishna District, in the

year 1856, received his early education at the Wesleyan Mission High School Madras, and after a successful collegiate career at the Central College Bangalore, entered the Civil Engineering College, Bangalore He received his diploma from the Engineering School in the vear 1880 being the first in the list of the successful candidates for the year In the same year he was appointed to the service as an apprentice Engineer He rose to Assistant Engineer in 1882, being placed on Railway and Railway Survey duty till the end of 1884 Even at this early period of his career his energetic services in connection with the construction of the Bangalore-Tumkur Rulway received special recognition at the hands of His Highness the Waharaj i of Mysore by a special promotion He was appointed to officiate as Executive Engineer in 1885 being made substantive in this grade in 1888, and in this capacity he served till 1893 as Executive Engineer in charge of the construction of the Bangalore Hindupur Rulway, of the Astagram Channels Division of Bridges Division and of French Rocks Division, etc. His more than average capacity for work, however soon attracted the attention of the Government of His Highness, who selected him as the ht and proper person for the arduous duties of Controller of His Highness the Maharaja's Palace This change from the P W D to the Civil Department has given further opportunity for his abilities. His stay at the Royal Capital of Mysore has brought in its train various other duties in addition to his work as a Controller of His Highness's household and finances all of which he discharged with distinction and ability As a member and Secretary of the Committee for the management of the Mysore Industrial School, as a member of the Mysore City Extension and Building Committee, as a Joint-Secretary of His Highness the Maharanee's Girls' School, as a member of the Committee for the management of Nanjaraja Bahadur's charities, as an officer in charge of the Mysore Artware Department, as a member of the Committee for the improvement of Seringapatam Town, as a member of the Committee to

perpetuate the memory of His late Highness the Maharija, is Secretiry to the Veeregil Reception Committee and in filling various other positions, both public and private he always strived it an uncommon success. While he was Palace Controller he received special presents and recognition from His Highness the Maharam and Maharanee Regent In 1897 he reverted to the P W D and was appointed to the French Rocks Division, and later on in the verr placed in charge of the completion the projects for Mandigere of Channel and Shimsha left bank Channel In December 1897 he was



Mi D SITARAMA RAO

on special duty to the Superintending Engineer's Office Eastern Circle, and rose to the and class temporary in the same year From 1898 to 1903 he was in charge of the Tumkur Division and was confirmed in the 2nd grade during 1903 Once agrin his special qualifications for higher administrative work were taken advantage of by the Government by appointing him as the Chairman of the Board of Trustees for the Improvement of the city of Mysore, in which capacity he conducted himself with his usual tact and energy and won the approbation and thanks of the Government for the improvements effected In 1905, while yet (hairman he was appointed to the first class and in the early part of 1908, was made Superintending Engineer, Western Circle

Mr Sitarama Rio was presented with Khillats by His Highness the Maharaja of Mysore in open Durbar, in recognition of the services rendered by him as Secretary in connection with the Reception of their Royal Highness the Prince and Princess of Wales at Mysore and Bangalore

WINTRI PRIVINI Raja C SREENIN ISIENGAR, retired first Member of Council Born at Bangalore in April 1850 educated chiefly at the London Vission High School at that station, under Revd I H Walton, who was one of the foremost educationists of the day His career as a student was brilliant He entered the service of the Mysore Government while he was yet a boy prosecuting his studies and for several years he filled to the satisfaction of his superiors certain ministerial appointments, first in the Postal Department then in the Chief Commissioner's Office and lastly in the Judicial Commissioner's Office Having, in the meantime by private study qualified himself for the bar he resigned service in 1871 and enrolled himself as a pleader (now Advocate) of the highest court in the land, 1 c, the Judicial Commissioner's Court After a brief but successful circei as a legal practitioner, the Government to whom his general att unments and judicial talent were prominently brought to notice by the then Judicial Commissioner Sir Junes Gordon offered him i Munsiff's appointment in 1873 the sta tion to which it was proposed to post him being the litigious mercantile town of Chintamani in the Kolai District He accepted the offer and proceeded to Chintamani where he served for six years and made a name for himself both as a Judicial officer, and as an officer who, given the opportunity, had an aptitude for executive work During that period his merits and work earned for him no less than three promotions Not only was his judicial work highly appreciated by the Judicial Commissioner but his services during the famine of 1876-78 enined for him the approbation of the Famme

made the personal acquaintance of the Viceroy, Lord Ripon, and it was on the occasion of this visit that arrangements were made for his investiture with full administrative powers. His Minister. Sir Sular Jung had in the meantime died, and a Council of Regency had been established with His Highness as President.

On the 2nd Teburary 1884, the Vicerov reached Hyderabad for the purpose of performing the installation ceremony, and great were the preparations made in the Nizam's capital to celebrate the accession of His Highness to the throne. In the course of his speech in the Durbar Hall I ord Ripon said that he was the first Viceroy of India who had ever visited Hyderabad and his presence on this occasion was a mark not only of the close and intimate ties which united the Ruler of the State with the British Government but also of Her Majesty the Queen's deep interest in the welfare of the Nizam

One of the first acts of the Nizam after assuming sovereign rights was to issue i proclamation to his subjects officially announcing his accession to the throne and indicating in detail the policy of administration he intended to pursue During the rule of His Highness great advances have been made and many improvements in the administration of the State have been carried into effect. The material resources of the country have been developed, railway and road communications have been extended and much progress has been made in irrigation All these measures form part of the administration of the State under the direction of His Highness, and a e fully dealt with elsewhere But there are matters of more personal moment that may fitly be mentioned in this article, and among these are the tangible tokens of loyalty and good-will towards the British Government that have, from time to time, been given by His Highness, the attendance of the Nizam in full State at Lord Curzon's Delhi Durbar his reception of Their Royal Highnesses the Prince and Princess of Wales at Hyderabad the great floods of 1908, and the part personally taken by the Nizam in the relief of the sufferers and last, but perhaps most important of all, the final settlement of the long-standing difficulties connected with the administration of Berar These are outstanding points in connexion with the regime of His Highness, and as they are of 1 more personal nature than are the measures of administrative policy introduced during the same period, they are accorded a place in this biographical notice of the Nizam

To take the last mentioned matter first in order of importance, as affecting the general well-being of the State. The Province of Berar, with an area of nearly 18,000 square miles and a population of nearly three millions, had long been under the dominion of the Nizam until, in 1853 it was assigned to the British Government, with the object of providing from its revenues the charges for the so-called Hyderabad Contingent, a force of more than 7,000 men under the command of British officers, which was maintained permanently at the capital of the State. The

terms of the treaty under which Berar was assigned to the British became in time a constant cause of dissitisfaction and complaint on the part of the Nizam and his Government The revenues of Bergr under British administration largely increased. The Nizam was entitled under the treaty to whatever revenues remained after all necessary charges had been met, but the amount of those charges was left to the discretion of the British Government, whose views regarding administrative requirements and the necessity for material improvements differed greatly from those of the Nizim and his Government Frequent attempts were made to obtain the abrogation of the treaty and the restoration of the province and it was not difficult to find in England itself noisy advocates of the claims of the Nizim versies on this subject were settled in 1902 by the Victrov and the Nizim on terms which while they protected the people of Bernr, give liberal recognition to the claims of the Nizam, to whom i fixed innual payment is made by the British Government—his nominal rights of sovereignty being mantained But for ill practical purposes Berar has become a British province

Not the least useful part of Lord Curzon's work in India was the friendship he formed with His Highness the Nizam, and the influence he exercised for the good of the State. Inlumble reforms have been introduced in quite recent years and the supervision of the finances of the State, which had fallen into the utmost confusion was entrusted by the Nizim to a British officer, with the best of results When, at the beginning of 1903, Lord Curzon held his great Durbar at Dellu, the 123m was amongst the most honoured guests, and the movements of His Highness attracted the greatest imount of attention. Although he personally adhered to marked simplicity of dress during the Durbar, the Nizam's temporary residence at Ludlow Castle was furnished in most magnificent style The private apartments contained the most costly carpets hangings and shawls, many of them the work of the famous shawl merchant who supplied some of the Coronation robes for Her Majesty Queen Mexandra There was also a magnificent display of gold-plate The grounds of the castle were gaily decorated yellow, the royal colour of Hyderabad, predominating, while the Nizam's carriage, and his escort, of regal splendour, were among the sights of Delhi during the Durbar period To the west of the Castle a large plot of ground was set apart for the purpose of a camp to accommodate the Nizam's Body-guard, which consisted of 50 Cavalry and 200 Infantry under the command of six officers. Two hundred magnificent horses were taken from Hyderabad and were stabled in the military camp Eighteen State elephants were also taken from Hyderabad and His Highness's personal suite consisted of twelve nobles and eight great officers of State, including H E Maharaja Kishen Pershad, Prime Minister, and H E Nawab Fakhr ul Mulk, Judicial Minister Nine

THE STATE OF HYDERABAD

The State of Hyderabad.

This important Mahomedan State better known as the Dominions of His Highness the Nizum forms a polygonal The country of the New presents much variety of orther and becture. In one per extension mount amount amount of the model
pueture que ir other flat and undulating The thir page land are of all de eriptienmeluding rank rich and tertile plains mi th Litted rond which wrom being brought under cultivation and nu merous trut too sterde ever to be cultivated. The soil is in general for tile thou h in some parts it consists of a red and pritty mould little titted for pur-

poses of igricul-The trippe in or blick cotton soil country is a land of wheat and cotton while the granitic region is a land of rice and tanks. The principal crops are rice wheat maize jour bajra rigi, oil seeds of virious kinds, fruit and garden produce in great variety cottor indigo sugar-cane and tobacco. The principal exports are cotton oil seeds, country cloths, hides metalware, and agricultural produce. The imports iresult, grain timber, piece-goods and hard ware. Among the manufactures of the country may be mentioned the orn imental ware of Bedar, the gold-embroidered cloths of Aur ungrbad Gulbarga, und other towns, and the excellent puper of different kinds which is mide it kaghazpore, near the fortress of Din

letable liver all a line to ned for risking sees are seed or destroy like the sees of the sees or the coor are exthered in the price efthe is there of her terminate trets the B rate reach tro a caltarate to core of a very distrible. Ik elots a mornificture latter at Mar. onest Mortand and Ha a particular Wars call of their und electric But the ber description of the restrict to factored at Newson to and at Mahade spere in Elgardal distret Warangala is formerly reted for its voollen and alk corpets and rurs complex of which have been sent to European exhibitions. whin they command dis road sale. The use of order dies hosever has caused much mury to the trule or me to the fidir of the colours. The mineralogs of Hyderabad is chiefly remarkable for gold and coal deposits and for iron ores which latter are andely diffused in the lateritic and granitic areas and the sand stone formation found in the God wire Villey - There was at one time a strong hope of finding drimonds in the south eistern portion of the country but the Hyderibid (Decem) Compins which holds the concession after spending a large sum of money in prospecting has apparently ib indoned further search for the present it least

The chmite of Hyderibid during the greater part of the veristemperate and igreeable being a medium between the extremes of heat and cold. The runful is mainly dependent on the summer runs, brought up by the South-West Monsoons but the eastern and southern portions of the country are also influenced by the autumn runs, when the same currents are deflected on the east-



PANORAMIC VIEW OF THE COD VIEW KINES

trict, occupving ilmost the centre of the Decen platem The country his an iverage elevation of about 1,250 feet above ser-level and is divided into two large and nearly equal divisions, geologically and ethnologically distinct, separated from each other by the rivers Manjira and Godavari portion to the north and west belongs to the trippean region, that to the south and east being granitic and calcareous area of the State is 82 698 square Of this arei about 56,000 square miles are under State management, about 20,000 square miles are held as jagirs the balance being the appanage of His Highness the Nizam, and generally known as Sarf-1-khas property

special trains were employed to accommodate the Nizam, his suite, followers, and impedimenta

The occasion of the Coronation Durbar was celebrated with great rejoicings throughout the Hyderabad State All communities, and especially the Mahomedans, were enjoined to offer up prayers for the welfare and prosperity of His Imperial Majesty, the King-Emperor, under whose beingn rule it was pointed out, they enjoyed so many worldly blessings

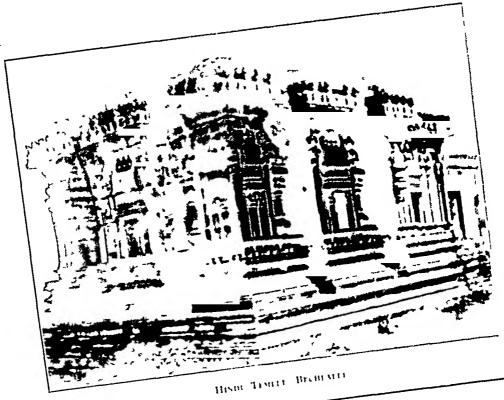
Although Lord Ripon was the first Viceroy of India to visit Hyderabad, successive Viceroys have followed the example thus set, and the effect of these visits and of the change of attitude of the British Government towards the premier State is clearly evidenced in the good understanding that now exists between the Nizam and the Government of India. It was shortly after his installation that the Nizam gave the first tangible token of his lovalty and friendship, when in 1885, he offered the services of his troops in the Egyptian war and later on, when an invasion of Afghanistan by Russia seemed imminent, he made a similar offer. Although these

profers of service were declined oving to various reasons, they created an excellent impression, and when on the occasion of the Jubilee of the late Queen-Empress, the Nizam made an offer to the Viceroy (I ord Dufferin), of picuniary help to the extent of 60 lakhs of rupees, to be expended upon frontier defences, this impression was strengthened. It is interesting to remember that the present Nizam was not the first of the Rulers of the dynisty who has offered the British Government monetary aid while the offer of troops, made in 1885 lud the foundation stone, as it were of the Imperial Service Troops which came into existence four years These troops, which, though they are under regular inspection by British officers belong absolutely to the different Native States from whose subjects they are recruited have now reached a high standard of efficiency and have won commendation in China and Somaliland as well is on the North-West Frontier They are available for Imperial service when placed at the disposal of the British Government by their Rulers



THE RAILWAY STATION, HADERABAD







ern coast. From its peculiar geographical position the country is thus brought within the influence of these vapour-bearing currents from almost opposite points of the compass.

The dominions of the Nizim are bounded on the north by the district of Khandesh and the leased districts of Berar on the south by the rivers Tungabladra and kistna on the cast by the rivers Wardha and God ivari and on the vest by the districts of Shol (porc Kaladyi Dhary ir and Ahmednagar all in the Bomhas Presidence A portion of the river 5 na also forms the vestern The State is divided boundary into two great and equal divisions. geologically and there s a corresponding agreement in the ethnological aspects of the country the Godavari and Manjir i rivers separating the Mahratt is from the Telugu and Kanarese peoples of the south. The principal rivers are the Godavari and the Kistni with their tributaries the Tungibhadra the Purna the Penging i the Manura, the Bhima and the There are, besides these many other smaller streams. The main draining is north-vest to south-east the country falling in this direction from 2,000 feet near Aurangabad to 1,200 feet it Raichur, ind 900 feet it kirnal. The lines of vatershed for the smaller streams follow the same direction, separating the valleys of the chief The most important rivers ranges of hills are the Balaghat Range running east and west from the tiluki of Biloli in Nander About 200 miles of this range is within the Nizam's territories. In the north the Sahuidr-Pirvit Range runs from east to northwest, and a length of about 250 miles is within the Hyderibid State Another range of hills runs from Diulatabad in the Aurangibad district, eastward in the direction of Julia, and proceeds into the leased districts of Berir and still another range runs into the country between the God is are ind the Manjira, passing through Bir, Darur, Mominabad, Udgir, and Kowlass Clusters of hills, running north and south, connect

the several ranges and there are a number of less important half ranges which need not here be specified

The God is in the most importintriver of the country is siered to the Hindus It rises in the Western Chats above Chandur and takes a south-casterly course entering the Nizem's dominions near Phultambe in the Aurengehad district flows through it and the districts of Parbhant Nander Indur and Adulated for a distince of 500 miles, and changing its course at the north east corner of Hg and aldistrict continues in a south-cisterly direction for about 170 miles until it enters the God iviri distract of Midris. It is joined by the Manjara v high rises in the Patoda talul of the Bhir district after a course of 387 miles through Bhir Osmanibid Bidir, Medal Nander and Indur dis-

The Kistna is the next river of importance. It has in iverage breadth of about half a male and takes its rise among the Mahableshwar hills entering the Nizam's dominions at Eachempet It is in flood during the rains but s generally fordable in the dry season. The general character of the Tungabhadra which enters the country near Hampi Sagar and forms the southern boundary for about 175 miles, is much the same as the Kistna A scries of inicuts is built icross the river for irrigation purposes. One conduit terminating in another, the whole once formed a continuous line, but it the present time there ire some interruptions in its continuity There are no natural likes, but from the eighest times idvintage has been taken of the undulating character of the country to dam up some low ground or gorge between two hills, above which the draining of a lirge irei is collected. Such artificial reservoirs he peculiar to the grantic country and wherever groups of granitic hills occur, tinks are sure to be associated with them They are not generally found in the trap regions, as the soil is too porous and the bunds thrown across become cracked

fissured in the hot seison so that they are lable to be breached when the rains burst

HISTORICAI

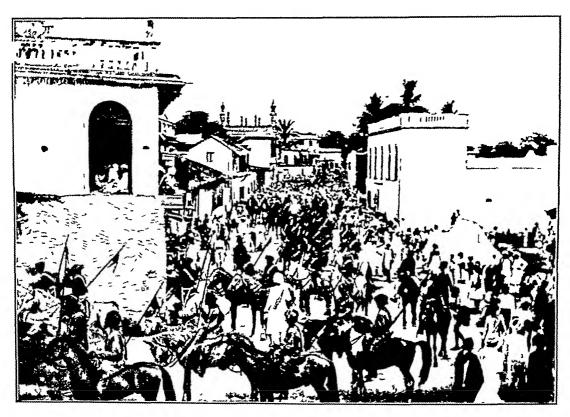
In prehistoric times the great Drividan rice occupied the southeir and eastern portions of v hat is not the Hyderibid State together with the rest of Southern Index and the Telugu speaking division of this rice constitutes the most numerous section of the population even at the present time It is uncertain when the invision of the Decemby the Aryans occurred but is a the adjacent Hindu State of Mysore Asoka third in succession in the line of the Maury in Kings occupies a prominent position in the early annals of the Decean, and his dominions in 272 251 BC covered i considerable portion of the north vestern and eistern tricts of the country and they hole of Bern Then came the Andhras who were the next langs to rule the Decem | Their rise to pover dates from about 20 B (the dynasty listed for a long time terminating about the year 250 AD The next dynasty of importance vas that of the Chalukyes which listed up to 1189 y hen the r poy er fell to the Hoysilis and Yidayas. In the year 1204 Mu-ud-din Khilp, led the first Mihomed in expedition into Mr-ud-din Khilp, led the the Decem When in 1325 Ma homed bin Lughlak ascended the throne of Delhi the Mahomedans vere misters of the Decem from north to south A few Years Later the Mahomedan Governors of the Dece in revolted ig unst the throne of Delhi and their rebellion result ed in the illenation of the Decean provinces from the Impered Power, ind the establishment of the Bahmana dynasty an what is now the State of Hyderabad

The founder of this line wis, according to a contemporary inscription, Ma-ud din Bahman Shah, and having taken possession of the Decem Provinces, including Bidar and Gulburga, he made the latter place his capital and commenced to reign in 1547. The Bahmani Kingdom at that time extended from

year stipulated not to interfere with the possessions of the Nawab of the Carnatic and to accept a reduced payment for the Northern Circars. The engagement between the English and the Nizam mutually to assist each other with troops was altered into an agreement to furnish the Nizam, on requisition, with two battalions of sepoys with guns, on condition of the Nizam defraying their expenses at being understood that the force has not to be employed

should invade. Ippoo's territories and should furnish a contingent of 10 000 horse to be paid for by the British Government, that in equal division should be made of the territories conquered and that if after the conclusion of peace. Ippoo should attack any of the contracting parties, the others should join and punish him. On the termination of the war territories yielding an annual revenue of 1,16,000 Pagodas yere made over to the Nizam

the Nizam had given his verbal consent to it. It was it this time that the Mahrattas revived a claim against the Nizam for arears of chout and threatened hostilities if it vere not satisfied. The Nizam applied to the British Government for aid but the treates with the Mahrattas precluded the English from any interference between the disputants, except in the capacity of mediator. War broke out in 1795 and terminated



IRREGULAR CAVALRY IN THE LINGUR PROCESSION

against any person in alliance with the English

On the breaking out of the first war with Tippoo Sultan Lord Cornwallis made every effort to secure the co-operation of the Nizam, by promising him full participation in the advantages that might result from the war, and a treaty of offensive and defensive alliance was concluded with him in 1790 By this treaty, to which the Peishwa was made a party, it was stipulated that the Nizam and the Peishwa

as his share of the conquests

After the conclusion of peace Lord Cornwallis transmitted to Hyderabad and Poona proposals to reduce to a definite treaty the mutual guarantee against Tippoo which had been stipulated for in the Treaty of 1791. But owing to the delay and evasions of the Peishwa, whose designs against Tippoo and the Nizam would have been frustrated by the engagements proposed, the conclusion of the treaty was abandoned, although

in the Convention of Kurdla, by which the Nizim was compelled to cede to the Mahrattas territories yielding a revenue of thirty-live lakes of rupees to pay three crores of rupees and as a hostage for the fulfilment of these terms, to give up his Prime Minister Three-fourths of the territory ceded by the Nizim was afterwards recovered during the dissensions which followed the death of Madho Rao Peishwa But the presentment created in the mind of the Nizam

Berar in the north to the left bank of the Tungabhadra in the south from Dabal on the west coast to the Telingana districts in the east. The Bahmani dynasty reached the height of its power under the Bahmani King, Ala-ud-din II, about 1437, and was broken up by its discordant elements between the years 1489 and 1525 Its successive capitals were Gulbarga, Warangal and Bidar Out of its fragments five independent Mahomedan kingdoms were formed in the Deccan It is, of course, impossible to trace here the history of these several dynasties In 1565 they combined against the Hindu Raja of Vijayanagar, who was defeated and slain in the decisive battle of Tali-But though the city was sacked and the supremacy of Vijayanagar for ever destroyed, the Mahomedan victors did not theinselves advance into the south Despite frequent internal strife, the Sultans of the Deccan retained their independence until conquered by the Mogul Emperor Aurungzeb in the latter years of the seventeenth century And this brings us to the founder of the existing Royal House of Hy derabad

The dynasty of the present Nizamwas founded by Asaf Jah, a distinguished General of the Mogul Emperor, Aurungzeb, of Turkoman descent After a long life at the Delhi Court, distinguished alike in war and political cunning Asaf Jah was appointed in 1713, Soubadar or Viceroy of the Deccan, with the title of Nizam-ul-Mulk, which has since become hereditary in the family The Mogul Empire was at this time torn by internal dissension, and amid the general confusion, Asaf Jah had little difficulty in asserting his independence against the degenerate descendant of Aurungzeb At the time of his death in 1748, he was firmly established as an independent sovereign, with Hyderabad for his capital, and kingdom roughly co-extensive with the present State On his death he was succeeded by his second son, Nasseer Jung, the eldest son, Ghazi-ud-din, holding

high office at the Court of Delhi The claims of Nasseer Jung were disputed by Mozuffer Jung, his nephew, with the support of Dupleix, the Governor of the French Settlements, who saw in the establishment through his influence of Mozuffer Jung as Soubadar of the Deccan, and of Chunda Sahib a claimant for the Nawabship of the Carnatic, a sure means of securing the ascendancy of the French in India The support which Mozuffer Jung received from the French was, in those times, of itself sufficient reason to induce the English to lend their aid and influence to Nasseer Jung zuffer Jung fell into the hands of his uncle, by whom he was imprisoned but in the following vear after the murder of Nasseer Jung by Pathan rebels, he was released, and with the support of the French assumed the authority of Soubadar After his accession Mozuffer Jung received into his service a body of French troops under the command of Bussy, and assign_d to the French large territories near Pondicherry, the Province of Karikal, and the town and district of Masulipatam He was soon afterwards killed in a mutiny of his troops. His only son being a minor, Salabut Jung, the third son of Asaf Jah was placed in power by the influence of the French, in gratitude for which Silabut Jung confirmed m my of the privileges enjoyed by them, and assigned several districts in the Northern Circars for the pay and equipment of the French auxiliaries in his service On the outbreak of the war between France and England in 1756, the French were driven out of the Northern Circars by an English force Salabut Jung, who had advanced to oppose the English, did not feel himself strong enough, without the aid of his French auxiliaries who had been recalled by Count Lally, to risk a battle, and was glad to conclude a treaty granting Masulipatam and other districts to the English, and binding himself to exclude the French from his dominions The text of this and subsequent treaties between successive Nizams and the

English is set forth in "Aitchison's Treaties, Engagements, and Sunnuds relating to India" The acquisitions of the British in the Northern Circars were confirmed by a Firman of the Emperor of Delhi in 1765, at the same time that the Dewani of Bengal, Behar and Orissa was obtained

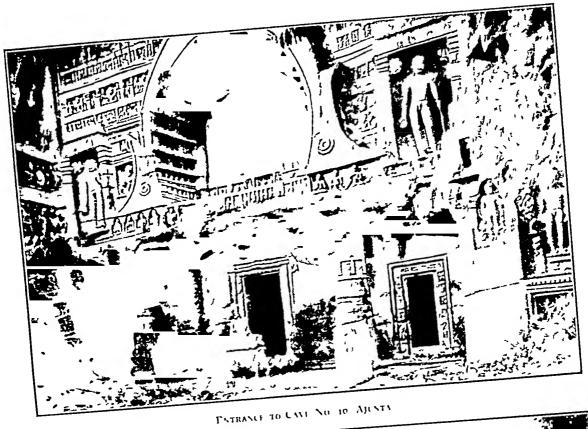
Salabut Jung was deposed in 1761 by his younger brother, Nizam Ali and died two years later in prison In 1765 Nizam Ali devastated the Carnatic, but was driven back, and at the same time an English force took possession of the Carnatic in virtue of a Firman from the Emperor of Delhi The Nizam was making active preparations for the continuance of hostilities, but Government, then the Madras labouring under pecuniary difficul ties and alarmed at the prospect of a war, deputed General Calliand to Hyderabad to negotiate peace These negotiations resulted in a treaty by which for the Circars of Ellore, Siccacole, Rajamundry, and other districts, the British Government agreed to furnish the Nizam with a subsidiary force when required, and to pay nine lakhs a year when the assist-ance of their troops was not required The Nizam on his part agreed to assist the British with his troops Under this treaty a corps of two battalions joined the Nizam for the reduction of the fort of Bangalore—then in the possession of Hyder Alı with whom the British Government was on hostile terms, but it was soon withdrawn in consequence of the Nizam having treacherously de serted the British alliance, and invaded the Carnatic in conjunction with Hyder Ali The Nizam, however, was soon compelled to separate from Hyder, and in 1768 another treaty was concluded be tween the British Government and the Nawab of the Carnatic on the one part, and the Nizim on the other by which the Nizam 16voked all Sunnads granted to Hyder Ali by the Soubadars of the Deccui agreed to cede to the English the Dewani of the Carnitic about the Ghats which had been the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition of the by Hyder \lin on condition at the condition at the condition of the condition at the condition at the condition of the condition at the condition a paying him seven lal hand conby the refusal of the British Government to aid him in his extremity, or to permit the subsidiary force to accompany him in the war, led him to entertain in his service a body of troops commanded by French officers, and to dismiss the British subsidiary force Friendly relations with him were therefore threatened with rupture but before matters came to a crisis the rebellion of his son, Ali Jah, compelled him to beg the return of the subsidiary force. The return of the Prime Minister, Azım-ul-Umrah, who had been given to the Mahrattas as a hostage, was also favourable to British influence, and as the threatening attitude of Tippoo made a closer connection with Hyderabad desirable, a treaty was concluded in 1798, by which the subsidiary force was made permanent and raised to six battalions, costing Rs 24,17,100 per annum By the terms of this treaty, which was the eighth treaty entered into between the Nizam and the British the Nizam's French corps was to be disbanded, and the British Government was to arbitrate between the Nizam and the Peishwa. or, in the event of the Peishwa not consenting to that arrangement, to protect the Nizam from any unjust and unreasonable demands of the Mahiattas On the outbreak of the second war with Tippoo in 1799, the subsidiary force and the Nizam's army co-operated with the British troops and after the fall of Seringapatam, the Nizam received, by the Partition Treaty of Mysore, districts yielding a large amount of revenue, and to these were subsequently added two-thirds of the territories which were offered to, but rejected by, the Peishwa The jealousy with which the Mahrattas viewed the operations against Tippoo, and the threatening attitude which they assumed, led the British Government to strengthen their connexion with the Nizam, and a new treaty was concluded with him in 1800, by which two battalions of infantry and one regiment of cavalry were added to the subsidiary force, and for the payment of the force the Nizam ceded all the territories he had acquired by the Mysore Treaties of

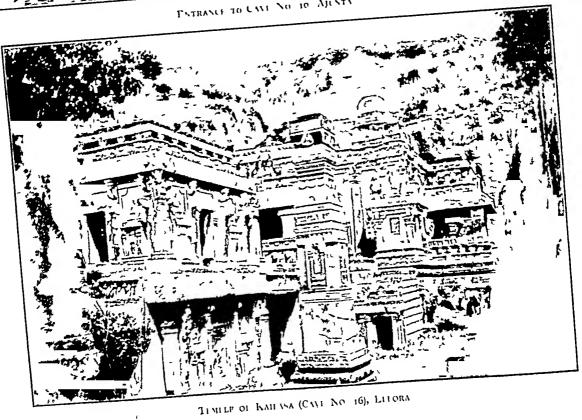
1792 and 1799, subject to some exchanges to secure a well defined boundary The treaty regulated the duties on which the subsidiary force was to be employed, secured the Nizam in the sovereignty of his dominions, prohibited his entering into political negotiations with other States, and made the British Government the arbiter in his disputes with other Powers In consequence of the equivocal conduct of the Nizam in the first Mahratta war, and the refusal of his officers to receive the wounded in the battle of Assaye into the forts of Daulatabad and Darur, an additional Article was added to the Treaty of 1800, requiring the contracting parties to admit the troops of either party into their forts when called upon (Treaty with the Nizam 1800) No 10 in Aitchison's Treaties

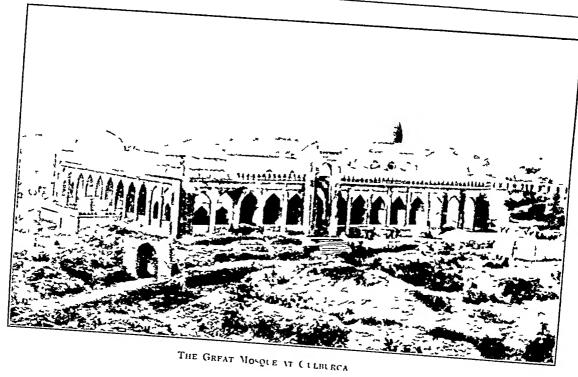
Nizam Alı died in 1803, and was succeeded by his son, Sikandar Jah, and on his accession all existing treaties were confirmed In the following year by the Partition Treaty of Hyderabad, dated 28th April 1804, cession was made of the Deccan territories taken from the Maharaja Scindia in the Mahratta war It was in the reign of Sikandar Jah that the reform of the military establishments was commenced, and a regular army, disciplined by British officers, organized The Nizam's newly organized forces proved of much service in the Pindari and Mahratta wars of 1817, and after the overthrow of the Peishwa these services were recognized by the Treaty of 1822, whereby the Nizam received a considerable accession of territory, was released from all arrears of tribute which he owed to the Peishwa and from all future demands for it By this treaty some further exchanges of territory were effected to secure a better defined frontier Sikandar Jah died in 1829, and was succeeded by his son, Nasır-ud-Daula, who was confronted at the outset of his reign with difficulties created during the latter years of his father's rule The country had suffered much from the practically irresponsible administration of Sikandar Jah's Minister, Chundoo Lall, by whom the revenues of the State had been farmed to con-

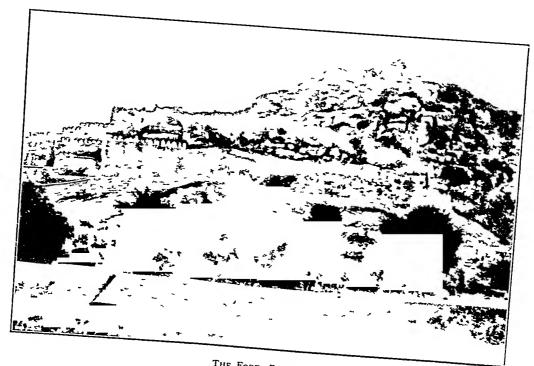
tractors who were supreme in their several districts The grossest oppression prevailed, and the country was in possession of robber bands For the restoration of order it became necessary to employ British officers in the different districts, and under their administration, order was gradually being restored When Nasır-ud-Daula came to the throne he requested that the direct interference of the British officers in the administration might be discontinued, and this request was complied with The withdrawal of British officers was immediately followed by a return to disorder, and a new arrangement with the Nizam became absolutely necessary Therefore, in 1853, a new treaty was concluded, by which the British Government agreed to maintain an auxiliary force of not less than 5,000 infantry, 2,000 cavalry, and four field batteries of artillery, and, to provide for its payment, the Nizam ceded in trust districts yielding a gross revenue of fifty lakhs of rupees, it being agreed that accounts should be annually rendered to the Nizam, and that any surplus revenue that might accrue should be paid to him The districts thus ceded consisted, besides Berar, of Osmanabad and the Raichur Doab By this treaty the Nizam, while retaining the full use of the Subsidiary Force and Contingent, was released from the obligation of furnishing a large force in time of war. The Contingent ceased to be part of the Nizam's army and became an auxiliary force, kept up by the British Gov-

ernment for the use of the Nizam Nasır-ud-Daula died in May, 1857, and was succeeded by his son, Afzal-ud-Daula This was a critical period in the history of the State, for during the Mutiny of 1857, the maintenance of order at Hyderabad was necessary for the success of the military operations in the Deccan and Central India The hopes of the disaffected were excited by the succession of a new Chief, and in July 1857, an attack was made on the Residency-which was, however, repulsed The efforts of the Resident to preserve order were ably









THE FORT RAICHUR

seconded by the Nizam's Minister, the first Salar Jung, who had been appointed to this post with the approval of the British Government in 1853. It was feared that, should the dominions of the Airim break into open revolt, Bombay and the whole of Southern India would rebel But the Airam remained staunch throughout the period of trouble, and cast in his lot with the British In recognition of the loyalty of the Nizam the British Government after the storm had passed, created him a Knight of the Most Exalted Order of the Star of India, and further, modified the Treaty of 1853, which required the submission of annual accounts of the Assigned Districts, and was productive of much trouble and inconvenience 1 new treaty was, therefore, concluded with the Nizam in 1860, by which a debt of fifty likhs of rucees due to the British Government was cancelled, the territory of Sholapur was ceded to the Nizam, and the districts of Osmanabad and the Raichur Doab were restored to him On the other hand, the Ni-71m ceded certain districts to the British, and agreed that the remaining Assigned Districts in Berar should be held in trust by the British Government for the purpose specified in the Treaty of 1853, and that no demand for accounts of the receipts or expenditure of the Assigned Districts should be made It was at

that time the object of the British Government to obtain the sovereignty of the Assigned Districts, so as to administer them through any agency it pleased, but to this the Nyam would not consent He, however, conferred on the British Resident at Hyderabad authority to enquire into and to punish offences committed by Europeans and others in Hyderahad territory, and

the practical value of this Sunnad consisted in the proof it afforded that the Airam directly consented to the trial of such offences by the British Government and waived all claim to have them tried in his own courts. The Airam at this time received a guarantee that any succession to his State, made in accordance with Mahomedan Law and the customs of his family, would be recognised.

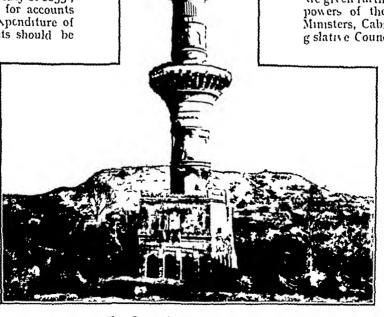
Afral-ud-Daula died in 1869 and was succeeded by his son, the present Nizam. As he was, at the time of his father's death, but three years of age a Regeney was constituted for the administration of the country, with Sir Salar Jung I as Regent, and the Navab. Shams-ul-Umara as co-Rigent the British Resident being consulted on all important matters.

concerning the welf ire of the State On the death of the co-Regent in 1877, his half-brother Nawab Vikar-ul-Umara was appointed co-administrator but he also died in 1881, Sir Salar Jung I remaining sole administrator and Regent until his death in 1883. In the following year His Highness Mir Wahbub Ah Khan, having attained his majority, was installed by Lord Ripon. Sir Salar Jung II being appointed Minister.

ADMINISTRATION

His Highness the Nizam is the supreme authority in the State in all matters, and his decision is final on every question. In every case involving consequences of an important or permanent character, a report is made to him and his order obtained The administrative and executive head of the Government is the Minister who is aided by Assistant Ministers who are in immediate charge of the various departments of the State For consultative and deliberative purposes there is a Cabinet Council of which the Minister is the President and such Assistant Ministers as are also Nobles of the State are members. There is also a Legislative Council for the enactment of laws, of which details tre given further on The respective powers of the Minister, Assistant Ministers, Cabinet Council and Leg slative Council have been defined

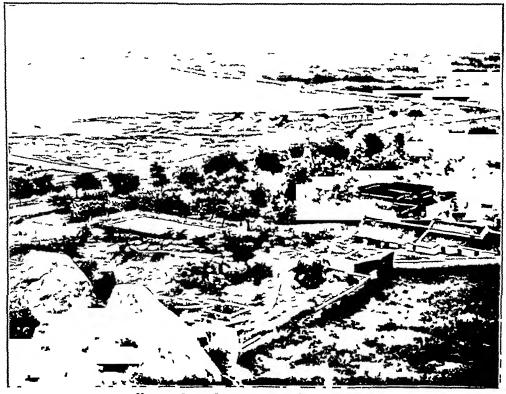
> in ordinances and acts issued or sanctioned by His Highness the Nizam The present form of administration was prescribed by the original instructions issued by the Nizam in the Edict of 1893, subsequently modified in some respects There are Secretaries and Assis tant Secretaries in each Department, who lay all papers, except those of the most ordinary routine, before the



THE CHAND MINAR, DOULATABAD



THE PARADE SECUNDED ABAD.



HUSSAIN SACAR LAKE, FROM THE BLACK ROCES

Assistant Manisters of their respective departments in the first instance and aftery aids before the Minister in case the subordinate concerned is not competent to issue final orders on the particular subject in hand. The Emancial Assistant Minister has charge of the departments of finance mints rulways and mines the Judies il Assistant Minister has under him the judicial department july registration medical post office and religious institutions. The Miltary Assistant Minister disposes of the work of the regular and are gular and the Impetral Service Troops the Miscellineous Assistrut Minister has under him the robee public vorks education mun cipalities and sanitation. The Revenue Department is directly under the Minister v ho evereses control over the departments of land revenue revenue survey and settlement, customs ir am excise and ablan forests igniculture comm ree and local funds

The district administration is carried on by Soubedars vibo ire heads of Divisions assisted by falukdars and Tcheildars Judicial Department is immediatch supervised and controlled by the High Court The District Police is in charge of in Inspector-General who is a British officer lent by the Government of India and who also holds the post of Inspector-General of July The City Police is under the control of a Commissioner The executive charge of the Irrigation Department is in the hands of a Furope in officer while the executive head of the buildings and roads branch is generally selected from imong the local officers of the State Public Works Forests are looked after by a Conservator, and Municipalities and Local Boards are established at all important centres

The lands of the State are divided into four principal classes, i.e., Khalsa, Surf-i-khas, Paigah, ind Jagir khalsa lands are the property of the State, and the land revenue and cesses collected thereon are paid into the State Treasury Sarf-i-khas are lands the income of which is enjoyed by the Ruler of the State. Paigah lands are

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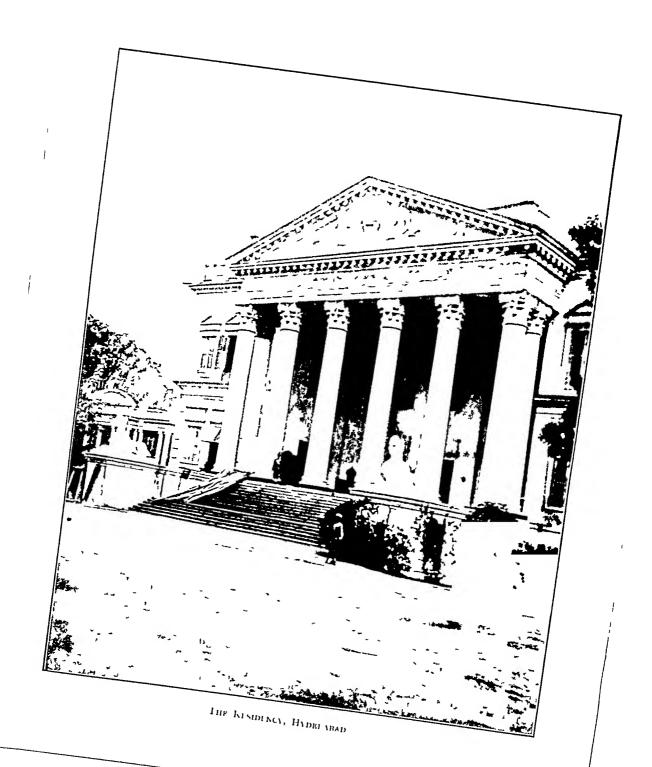
held by some of the leading Nobles is military fiels. Jugir lands are those which have been granted to individuals at various times by the Ruler of the State either in return for service or by y is of Royal favour. The revenue of such land s collected and enjoyed by the Ligirdar subject sometimes to payment of tribute. The landresenue of the State is collected from the man body of State igniculturists under the reat an system for purposes of lind revenue and general administration the Nizam's territory is divided into four Subth or antisions sixteen districts and one hundred and seven taluks exclusive of cleven Surfacklins taluks Mesc of the country has been surveyed and settled but there are still some parts where survey and s tilement have not been curred out I ich Subah is under a Commissioner indeach District under a Collector - Exclusive of the Crov n lends but including all the Ingrand Parablands each of the four Subths his an average in proximating 20 000 square miles

Under the rooty in system each field is considered a holding, which the rest holds directly from the State and the holder or occupant of the field is called the pattadar The right of occupancy depends on the regular payment of the assess ment by the patta far and in case of fulure to meet the demand he forfeits his right. In such a case the land reverts to the State and the right of occupancy is sold by auction to satisfy the demand for arrears. The period of holding is nominally one year but if the holder pays the assessment and dues regularly he may return his find indefinitely. A battadar may relinquish his land by giving due notice of his intention to do so or he may sell or transfer his right if he chooses so to do. Of the other systems of tenure a jagir is a free grant of one or more villages, and the tenure may be classed under four herds al tampha or mam-al-tampha. which are grants of an hereditary or permanent nature lat Jagirs or personal grants for the munte nance of the grantees, pargah jagirs, or grints to the nobles of the State for maintaining

\17 tm troops for the tanth calci-mabillat or ceints in has of certain local payments that vere binding on the State mam linds ire grinted for service or charitable purposes either free of recente or subject to a quit rent Malta or sarbista resembles the in ir temire except that the holder his to pix a certain fixed propor tion of the revenue to the State it is also known is falan fat in the Maratha districts Peshlash or inpud tribute is realised from lithe remind in estates, and other miscellaneous receipts from fruit tree grazini lands jacirs under temporary attachment times and tarle stures

The I voice revenue of the State is derived from the following intoxicints and drin's - Foddy country spirit foreign spirits opium hempedrius and other drings. The District Excise farms are under the supervision and control of the Keyenue authorities. The farms in the City circle (which comprises the City of Hyderabad and the cuiton nents of Secunderabad and Bolarum) are looled dier by an other styled the Taluldar of Ablari

With the exception of certain exempted articles a customs duty not exceeding 5 per cent of the value of my article is levied on all imports and exports in His Highness dominions The Civil and Military afficers of the British Gavernment stationed in the Nizim's dominions the chief nobles and Jagardars of the State the higher officials of the Government and other influential persons are exempted by general or special orders from payment of any customs duty in respect of articles, intended for their personal or private use, and not for sale. Opium v high is subject to a special excise duty, is excluded from the Customs tariff but salt pass a duty of Rs 2 per 120 seers. In order to encourage local manufactures, the duties payable on certain cloths made at Virayannett and Mahbubnagar have been exempted from duty since 1898. In the same year the system of receiving fixed monthly payments from certain dealers in gold, silver, and precious stones in satisfiction of the demand for ordinary duty on articles imported



or exported by them, was abolish or exported by them, was accounted they were from that year made liable to the general year made hadre to the feat of customs tariff A great deal of silver smuggling is carried on, and large rewards are promised to persons instrumental in detecting cases in which the guilt can be proved

REVENUE AND EXPENDITURE The principal heads of revenue are the Land Revenue, Customs, Excise and Mint In the Revised Budget Estimates for the latest year for which figures are, the retime of writing, available, the recent which in the recent was a salable, the recent was a salable with the recent w ceipts under these four heads furnish upwards of three-fourths of the total estimated revenue sources of income are Opium, sources of income are Registra-Forests, Stamps, Post Office, Public Works, Post sundry tion, and Justice and Law and Justice Departments Law by Cavil Departments receipts by Civil Departments With the Land Revenue, Customs, and Excise we have already dealt and we now come to another important, but very irregular, source of the Hyderabad currency and coming operations forms a of revenue, the Mint interesting chapter in the history of the State, to which the limits of space will not allow us to do full Justice Prior to the introduction of the Halli Sicco currency by the first Sir Salar Jung in 1855, coming was carried on in several Mints, situated in various parts of the Nizam's dominions, most of them being owned, not by Government, but by powerful Jagirdars, who derived large profits from the ma-nufacture The natural consequence was an extensive debasement of the comage In 1855, Sir Salar Jung established a new Hyderabad Mint, and introduced a new comage to which he gave the new comage to which he gave the name of Halli Sicca and rupee weighed 1725 grains, and contained 2 mashas of alloy to 9

The City Mint, when started, was a very small one, capable of turning out not more than 3,000 turning out all hand made In the first year the outturn did not first year the outturn hut in the of silver exceed a lakh of rupees, but in the following year steady progress was made, and towards the end of 1856, when about 18 lakhs had been minted, a notification has

issued forbidding coinage elsewhere than in the Hyderabad City Mint The process of introducing the new Halli Sicca Rupee went on slowly at first, and for some time its circulation was confined to the city and suburbs In the districts the old rupees remained in circulation and no steps were taken to discourage their use, beyond this, that only Halli Siccas were iccepted it Government Treasuries, in payment of Government demands Free comage was allowed in the Mint up to 1893, but after that drie comparatively little silver was The stock of rupees in circulation became somewhat depleted, and the rate of exchange between the State rupee and the British rupee, after fluctuating violently in 1901 and 1902 became ientiv in 1901 and 1902 exchang-fairly steady, the former exchang-ing at about 8 per cent above its

In 1904, the building of 7 new Mint and the importation of fresh bullion value machinery were vigorously pushed on, and by the end of the year the new Mint was in working order Meanwhile an improved coin of t new design had been decided on, and the old Mint had been kept working during the first ten months working during the mest cen months of the year, and during this period 80 lakhs of the new Char Minar rupees were coined. When the new rupees were coined When the new Mint was opened, the minting of the improved rupees, was carried on at the new establishment, and since then the supply has been so regulated as to prevent serious

fluctuations of exchange value The rate now stands at between 115 and 116 to 100 Butish rupees The copper coins issued by the State were, about 2 pies in value pieces of about 2 pies in coing fines for the pieces of about 2 pies in coing fines fines for the pieces of about 2 pies in coing fines fines for the pieces of about 2 pies fines fines fines for the pieces fines f Since 1905, however, copper coins of a better pattern have been issued from the Hyderabad Mint, representations of the first terms of the firs senting the same value Half-anna

coins have also been made As in former years, gold is still received in the Mint for manufacture into Ashrafis or fractions of Ashrafis These gold coins are not ashrafis the Nigon's dominions current in the Nizam's dominions for purposes of exchange, but are often presented as Nazars to His Highness or other well-to-do people Also, they are often obtained and worn as ornaments On grand occasions they are distributed in charity

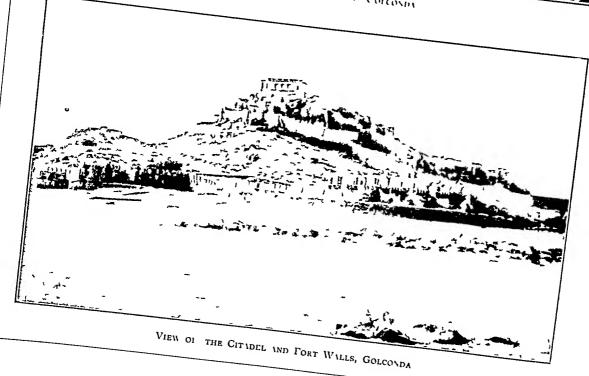
or as gifts on behalf of the Nizam All told, there is no large demand

The revenue derived from Forests is small in amount, averaging, over a period of five years about for them 41 lakhs of rupees only, per annum The administration of the State Forests is under the control of a Conservator, and the management of the depirtment is guided by the Forest Act of 1899, which empowers the Conservator to exercise full control over reserved and protccted forests, and reserved species of trees in open forests Timber is supplied to purchasers at fixed rates, while cultivators receive free timber and fuel for agricultural implements and domestic purposes Minor produce, such as grass, branches, and leaves, etc, is grant ed free to the local ryots and free grazing is permitted under certain local demand, timber of various kinds is exported to different parts restrictions The forests form six divisions Warangal, Indur, Mahbubnagar, Aurungabad, Virmal, and Gulbarga

and each division is under an Sixteen species of trees are reserved in the species of trees are reserved in the open forests, as follows—Sandal, triuman, teal, ippa, nall maddi, tiruman, sheesham, chony, satinwood, bijesheesham, chony, satinwood, chony, sal, buthigamupu, soini, kodarsi, san, butingamupu, soim, kouaisi, sandra, hendaru, mokub, and chu-mangi. Of these, the first five only are found in any number in the the others being open forests, cceedingly rare

Under Public Works, the most important, from a revenue point of view, are the railways, and the Nizam's Guaranteed Railways Co, Id, work the Custing railway lines in the Nizim's dominions These lines consist of a broad gauge railway from Wadi through Hyderabad and Secunderabad to the south-eastern frontier of the Hyderabad State, a distance of 330 miles, and a metre gauge railway, called the Hyderabad-Godavery Valley Railway, which runs from Hyderabad to Munmar, 301 miles The south-western corner of the State is crossed for 137 miles by the broad gauge line from Bombay to Madras About 120 miles of this line belong to the south-eastern section of the Great Indian Peninsular, while the remainder is part of the





north-western branch of the Madris Railway the junction being at Raichur The Nizam's Guaranteed State Rulway is owned and worked by a company under a guarantee from the Hyderibad State, and the same company works the metre gauge line, capital for which was rused by the issue of redeemable mortgage debentures. An extension on the metre gauge from Purna to Akhola, a distance of 157 miles is contemplified, which will link up the Rapputan i-Malwi and Southern Mahratta systems and several other surveys are nov being carried out

The only mine that is being prohtably worked at present is the Singareni coal mine in the Warangal district. This is being vorked by the Deccan Mining Company, and is the output is considerable (2,109,882 tons during the five years 1898-1903) the Royalty paid to the State is corresponding lirge and is increasing in amount yearly The Gold Field vorkings in Ruchur have showed but poor results The Hyderibad State is rich in minerals, and the reason why mining enterprise has made so little heady as up to the present is that the Deccin Mining Company, who had obtained for a few years a monopoly of prospecting for minerals throughout the vhole of the Nizam's dominions had, in 1891 ind 1892, mide extensive clums to mining areas in which the Nizam's Government were unable to acquesce. The disputes that ensued prevented the original company from either undertaking themselves, or lessing out to other companies, fresh mining are is, and also barred fresh applications for prospecting rights from others Arbitr ition was recently resorted to, and from latest accounts, the disputes irc likely to be settled imicably. It is well established that deposits of iron ore of varying qualities are widely distributed over the lateritic and granitic tracts of the State. while similar deposits have been discovered in the sind-stone formations in the Godavery and Wirdha Valleys In the tract situated between the Kistna and Tungabhadra rivers, hematite occurs in considerable quantities Among other minerals found in the country may be mentioned mica, fine

specimens of corundum and girnets and a small deposit of graphite in the vicinity of Hisanabad A copper lode has recently been discovered at Chintrala in the Nalgond i district which promises to be remunerative Excellent limestone is quarried at Shahabad between the Wide Junction and Gulbarga on the Great Indian Peninsular Raily iv In addition to the minerals already mentioned red chilk and silme deposits have been found. From ancient times drimond mines have been worked in the illuvial deposits round about Partial near the Kistna as well is in other localities in the alluvial tract of the same river. Trails made in recent years by the Decem Mining Company involving a considerable outlivproved unsuccessful. Only stones of very small size were found the gangue having been worked out by the old miners

HEISTAHON AND JUSTICE

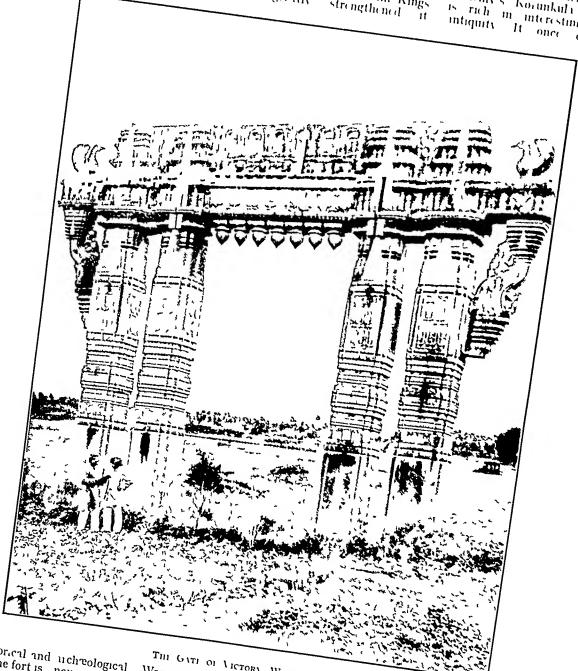
The Legislative authority in the Nizim's dominions is the Hyderibad Legislative Council established by a Lirman of His Highness the Nizm in 1893. In the following year "Act I of 1,04 Fish Tt ceived the Nizim's sinction recognising the right of the people to share in the work of friming livs, and to representation In 1600 this Regulation was reenacted with certain modifications and is still in force. The Council consists it present of a President and Vice-President, eleven official and six non-official members Manister is the President and the Assistant Minister, whose department is concerned with the particular Bill before the Council, is the Vice-President for the time being Of the official members the Chief Justice, the Judicial Secretary, and the Legal Advisor, are ex-officion members, the other eight official members being nominated by the Minister for two years. Of the six non-official members are elected by the Jagirdais and landowners, two by the pleaders of the High Court, and the remuning two ire nominated by the Minister from among the people The Criminal Code, which was passed and came into force three verrs after the establishment of the Council, was drawn up, with certain alterations, on the lines of the Criminal Code now in force in British India It supplied a long-felt need and has relieved the Courts of much uncertainty as to the law in dealing with criminal cases Other important Acts that have been passed in recent years deal with the regulation of procedure of Courts of Civil Judic sture the consolidation and amendment of the Law relating to Criminal Proce-The Evidence Act was passed in 1904 and the High Court Regulations were amended in the folloving year. Bills introduced into the Legislative Council are based Mahommed in jurisprudence the Hindu Shastris special livs binding on a particular community or customs and usages having the force of law

The High Court v high consists of five Judges, is the Supreme Court of the State and exercises both Original and Appellate Jurisdiction in civil and criminal matters. It also mantans a general supervis on and control over all the other Courts for the exercise of which the Chief Justice, or inv Judge of the High Court whom he may appoint, is authorised to go on circuit to inspect the various Courts. In its idministrative expacity High Court is empoyered to issue rules and regulations for the guidince of all Courts, in consonance with the liw, to after them from time to time, and to suggest to the Government the introduction of my new or intendment of my old Itw which it may consider necessary There are now 723 Civil and 271 Criminal Courts for the administration of justice Lahsildirem we try suits up to a limit of Rs 100, but very few excress these powers. In the City of Hyderihad, besides the High Court, are the Kizi's Court, the City Civil Court, and the City Criminal Court The kazi's Court has jurisdiction in original suits between Mahommedans, relating to betrothal, marringe, divorce guardianship, dowry, maintenance, succession, inheritance, and ill such matters. The City Civil Court adjudicates upon civil suits arising in the city, and not exceeding Rs 5,000 in value The City Criminal Court disposes of ill criminal cases arising in the city, which can be dealt with by a

Golconda too was originally a Hindu fort crected by the Rips of Wiringil It came under Wahommed in domain on at 1362 There ire number of old buildings in the

originally belonged to the Hindus, and either into Withommed in Possession in the time of the Adil Shihi Kings strengthened it

which was founded in the 8th century and is identified with Ptolemy on is identified with Ptolemy's Korunkula. The place is rich in interesting relics of intiquity. It once contained a



fort, of historical and uchreological interest The fort is now used as the head-quarters of the Golconda Brigade, and is carefully looked

THI GATE OF VICTORY, WARANGAL

Warangal, also built in Hindu times is a very ancient fort, cacular in construction It is two m les distant from the town of Warangal,

stupendous Hindu temple, of which only four tuned gricky, or smooth

first-class Magistrate There is a special Magistrate for the trial of Thinggi and Dacoity cases Formerly a large number of influential people were exempted from attendance in the Courts but this privilege was abolished in 1900, and no one can now claim exemption as a right

MUNICIPAL AIFAIRS

The most important Municipalities in the State are those of Hyderabad and Chudderghat, which have, since 1903, been amalgamated, and placed under a special officer, styled the Secretary to the Committee Municipal administration was first introduced into Hyderabid in 1869, and seventeen years later the Chudderghat Municipality was established, and, as stated above, was later on amalgamated with the older body The principal sources of revenue to the Municipality arc special grants by Government in the way of contribution taxation on houses animals and vehicles. slaughter-house and bizair fees, water rates, and other smaller items The special grants do not properly belong to the Municipality, but are rather expended through the agency of the Municipal Committee by Government for the sake of convenience members of the Committee are called Municipal Commissioners, and number twenty-seven President and some of the members are officials, while the remainder are selected from the valils of the High Court bankers, representatives of the Sart-1-khas and Paigah departments and other persons not in State employ

All the leading district towns in the State have been constituted into Municipalities, and the Local Cess has been introduced in all settled districts. It is at present in force in 110 talukas and provides funds for the construction and maintenance of roads, schools, dispensaries, rest-houses, and other works calculated to benefit the people of the district. It is collected with each instalment of revenue paid by the cultivators, at the rate of one anna per rupee of land revenue, and is credited in the accounts as follows - Village Police fund, 4 pies educational fund, 2 pies, road fund, 2 pies, medical.

I pie, and general improvement fund, 3 pies. The village Police fund is credited to the State which meets the cost of the village Police the educational fund is controlled by the Educational department. At present there lie 15 District and 94 Taluk Boards. A District Board is composed of 14 members, half of them being officials and half non-officials. A Taluk Board consists of five members, two officials and 3 non officials.

ARCH FOLOCA

The Nizam's dominions are rich in remains of antiquarian interest or historical importance. The finest rock temples and caves in India are to be found within the limits of the Hyderabad State There are numerous old forts, where fates of kingdoms were decided in the past, ruins of large cities which once enjoved pover and splendour, tombs of illustrious men who have left a lasting mark on the country, wellpreserved inscriptions, many of them still undeciphered, recounting perhaps the deeds of rulers of men or of benevolent founders of charities, and other relics full of interest to the scientific enquirer and the lover of research and study With a few only of the more important of these can we deal in this article

To take the Rock Temples first in order, those of Fllora and Ajunta in the Aurangabad district are wellknown The former is described as the finest group of caves in India It contains temples dedicated to the service of three religions, Buddhist, Brahmanical, and Jain The caves of this group vary in age from the 5th to the 9th or 10th century The Ajunta Caves are situated in a lonely and wild ravine, about three miles in a straight line north-west of Ajunta, which is 52 miles northeast of Aurangabid They are about a thousand years older than the Fllora Caves, and belong exclusively to the Buddhist religion They are twenty-nine in number, and are famous for their frescoes, which, however, have been sadly damaged by visitors who cut out pieces and carry them away as mementoes Besides these importtant Cave groups, which are still in a good state of preservation, there are other minor groups in the Aurangahad district, at Ghatot

Kach, Pital Khora, and Rudreswar In the Bir district there is a cave at Amba Jogai and about two miles from the town of Dharaseo in the Naldrug district there are two groups of caves, one belonging to the Jain ind the other to the Vaishnav sects. A series of old Brahmanical caves are situated at Karusa, in the Bidar district, and at Kalyani in the same district there are several rock excavations, one of the cells having doors of the Egyptian type, videning towards the floor

The most famous tombs in the State are those of the Kutubshahi Kings at Golconda, about five miles to the westward of the city of Hyderabad All the kings of the Kutubshahi, except the last, Abul Hassan, who ended his days as a prisoner in the Dowlatabad fortress, are interred here. The earliest of these tombs was constructed previous to 1543 by the first Kutabshahi King, Sultan Kuli, for himself They are massive structures of grey granite, oblong or square, surmounted with domes Some of them are richly decorated with enamelled tiles and other architectural embellishments Most of them were surrounded by their own separate gardens in former times but both the tombs and the gardens suffered considerably at the time of Aurangazib's invasion of Golconda After this they remained in a neglected state for a long time till the first Sir Salar Jung took steps to preserve and repair the buildings and to replant the gardens Since then the Nizam's Government has looked carefully after these ancient remains, and much of the wanton destruction which visitors used to inflict has been checked of late

There are twenty-nine forts, large and small, and among the principal may be mentioned those of Dowlatabad, Raichur, Golconda, Kandhar, Yadgir, Naldrug, Warangal, Nalconda, Nirmal and Bidar The Dowlatabad fortress is eight miles to the north-west of Aurangabad It belonged in olden times to Hindu Rajas and was known by the name of Devgad or Deogiri It has been identified by some as the Tagara of Ptolemy The Raichur fort is a relic of the ancient Hindu Rajas of Warangal

following Prime Ministers —Sir Asman Jah Bahadui, Keir, Sii Vikar-ul-Umia Bahadur keil, Maharaja Su Kishun Pershad Bahadur, KCIE The holding of this delicate office under so many Ministers is proof of Mr Faridoonii Jamshedji's abilities and the remarkable tact and promptitude with which he deals with all matters that come before him During the regime of Sir Asman Jah Bahadur, Mr Faridoonji Jamshedji with Nawab Moshin ul-Mulk was selected to represent the Nizam's Government at the Parliamentary enquiry in connection with the Decean Mining scandal The Companionship of the



Mr Faridoonji Jamshedji, c 1 c

Indian Empire was conferred upon him by the Government of India in recognition of his good services to the Hyderabad State, and this order he had the honour of receiving at the hands of His Excellency the Viceroy during the Coronation Durbar held at Delhi in 1903 The conferring upon Mr Faridoonji Jamshedji of the post of Political Secretary to Government in addition to his other duties is the latest indication of His Highness the Nizam's recognition of the many years of good and useful work he has rendered to the State of Anyone acquainted Hyderabad with Hyderabad politics will readily understand the important nature of

1

this appointment. His Highness' selection has given much satisfaction to ill clisses in Hyderibid During the absence on furlough of Mr Cusson Walker Mr Turidoonji has also had charge of the portfolio of radways and mines. Mr Faridoonii Jamshedii possesses an individuality of character which is very marked, and there is scarcely a visitor to the Deccan capital who his not partaken of his generous hospitality He is a keens portsman and though now in his fifty-sixth year he is still a good rider and better shot, to which the many trophies of tiger and other game that adorn his charming house at Sufabad bear eloquent testimony. He is a vidower with one son, Mr Rustomji Jamshedy, who is now a Deputy Commissioner in Berar, and though quite a young man has dready earned the Kaiser-i-Hind Medal His two brothers, Messrs Burzorji Jamshedji and Sohrabji Jamshedji, are both in His Highness' services, the former holds the appointment of First Talukdar, and the latter has recently been appointed Conservator of Forests Mr Taridoonii is a gentleman of some literary attainments, and has often contributed to the leading English newspapers in Inda He is a life Member of the Royal As atic Society of Great Britain and Ireland, and the Cobden Club

Captain MIRZA KARIM KHAN Nawab Khedive, Jung Bahadur, MRCM (Edin), is the Deputy Director of H H the Nizam's Civil Medical Department, and the Vice-Principal of the Hyderabid Medical School He is the fourth and youngest son of Mirza Musa Khan, a gentleman of high birth and position, whose ancestors originally came from Khorasan, in Persia, at the time of the invasion of India by Nadu Shah But although the founders of this ancient family came from Persia, it was the Nawab of Gazipur 7 maniah who founded the Indian branch, and it was through his efforts that relations between the reigning family of Persia and the British in India were first established The career of this Nawab, who was named Mirza Mehdy Ali Khan, was a remarkably successful one, and eulogistic mention of his name may be found in the

despatches, minutes, and correspondence of the Marquis of Wel-The services of the Nav ib were utilised by the old East India Company in 1799 in connection with certain negotiations of a political nature with Persia. He died in the year following, when his eldest son, Mirza M. Hoos un Khan Diliwar Jung who was a renowned Persian and Arabic scholar, was employed by the Last India Company and for some time served under Sir John Malcolm, whom he accompanied to Persia on a mission to that court. He died in 1818 and one of his sons, Mirza Musa Khan, the father of the subject of



Capt Mirza Karin Khan

this biographical sketch, entered the service of the Bittish Government at the age of 16, filling various posts, until he eventually retired on a handsome pension, and on the invitation of the first Sir Salar Junghe decided to settle down in Hyderabad and to adopt it as his future home. He died in 1869, leaving four sons and three daughters

Captain Mirza Karim Khan, the youngest of these four sons, joined the Hyderabad Medical School in 1882, after passing a competitive examination with credit. His ability and industry brought him to the notice of Dr. T. Beaumont, then Residency Surgeon at Hyderabad and on his recommendation he was

Colonel Navab WIHOMED ILI BCG, Sır Bahadur, KCIE WVO A-D-C AFSUR-UL-MULK Commander-in-Chief of the Regular Forces of His Highness the Nivam of Hyderabad Son of the late Mirza Vilayat Mi Beg Resaidar 3rd Cavalry, Hyderabad Contingent Born at Mominabad, July 22, 1852 Resaidar Vilavat fought against the rebels during the Indian Mutiny of 1857 the Contingent being employed in the suppression of the revolt For his bravery he received the Order of Merit and the Order of British India He was also Presented with a Sword of Honour by Sir Hugh Rose, Commanding Central India Force He died in 1866, by his will appointing Mr (now Sir Charles) Fitzgerald of the 3rd Hyderabad Contingent guardian of his son 1867 Nawab Mirza Mahomed Mi Beg Joined the 3rd Caralan May Mahomed Mi Beg joined the 3rd Cavalry of the Hyderabad Contingent and was rapidly promoted to Resaidar In 1877 he commanded H II the Nizam's Escort of 100 men of the Contingent at the Delhi Assemble ge of that very In 1880 on the occasion of Sir Salar Jung's Visit to Aurangabad with the Resident Sir Richard Meade, he again commanded the I scort, Visiting Daulatabad, ed the I scort, Visiting Daulatahad, Roza and Ellore On this occasion in the absence of Major Stewart the Scond-in Command when the 3rd and 4th Cavalry 4th Infantry, naraded before the Rocadent and paraded before the Resident and the Minister, he was given Com mand of the 3rd Cavalry, the first occasion on which a Native Officer commanded a whole Regiment on parade In the Afghan War of 1881 he accompanied his Regiment to the front in command of the 3rd Squadron He was highly commended and received the thanks of Brigadier-General Sir Thomas Wright, and was awarded the Afghan Medal On his return to the Staff of H H appointed to which necessitated his transfer to which necessitated his transfer to Hyderahad For his distinguished Services H H the Nizam was services H H the Nizam was pleased to confer upon him in 1884 the title of Afsur-Jung and in 1888 the title of Afsur-ud-Dowla The distinguished household title of Afsur-ul-Mulk was conferred upon him in 1903 These honours from

His Highness Government were supplemented by the distinction of knighthood conferred upon him by the British Government in 1908 when he was made a KCIE In 1897 Sir Msur-ul-Mulk was appointed Commander H H the Nyam's Regular Troops which conferred on him the rank of Commander-in-Chief He had previously the Golconda Brigade and two Regiments of the Imperial Service Troops which he had himself raised He also holds the rank of Wajor in the British Army Sir Msur-ul-Mulk has served on active service on several occasions besides the Afghan War He was selected to accom-Pany the Durand Mission which fell



Colonel Sn Alstrul Milk hell

through He rendered distinguished service in the Black Wountain Expedition, where he was on the staff of General Sir John McQueen In 1900 Sir Afsur-ul-Mulk Joined the Ching Expedition, on the staff of General Cummins Commanding the the Fourth Brigade, but on arrival at Hongkong was transferred to a more important post on the staff of Chief of the Expeditionary Force Commander-in-He also took part in the Ponting Four expedition and Joined General Richardson's flying column On the recommendation of the Inspector-General Imperial Service Troops, he was selected by the Government of

India to accompany the Indian contingent to England on the occasion of the Coronation of the King-Emperor Edward VII He received the China medal from the King personally, and the Coronation medal from the hands of the Prince of Wales On the occasion of the Nizim's Forty years, Jubilec His Highness on parade with his own hands tied on Sir Msur-ul-Serprich, and presented him with a special Sword of Honour valuable Msur-ul-Mulk has attained many distinctions and as he is in the prime of life many others ire before this distinguished soldier who has so wide a field for his

Wr FIRIDOONJI JIMSHED. JI cir Political Secretary to the Government of His Highness the Nizim of Hyderabad and Privite Secretary to His Excellency the Prime Minister of Hyderabad Eldest son of the late Dr Jamshedn, also formerly in the service of the Niram Born in the Aurungabad District, September 1849 Entered the service of the Hyderabad Government has since served under six administrations, and has nearly thirty-eight verrs' continuous service to his credit This is the longest term of service of any of the Secretaries ime when the Bombay survey system was first introduced into the service and the system was first introduced into the system. Nizam's dominions, Mr Faridoonji Jamshedji was selected to carry out the work, which he effected in the districts of Aurungabid, Bu and Parbhani, embracing 15,000 square miles of territory. He earned great than Drives Minister Line 15,000 square credit from Sil Salar Jung I, the then Prime Winister, by the energy and ability with which he effected the task, and was presented by that nobleman with a gold witch and thun in recognition Wr Firidoonn was appointed First Talukdar at Jurung ibid in the year 1883 and the following year, on the retirement of General Glasfurd, he succeeded that officer as Survey and Settlement Commissioner In 1884, Sir Salar Jung II attained office as Prime Minister, and he appointed Mr Faridoonji Jamshedji his Private Secret uy in the same vear Since then Mr Faridoonji has continued to hold the same office under the

Navib ZOOLCABLE IUNG Judge High Court H H the Nizum's Government Hyderabid Born at Hyderabadon 20th May 1875 Lducated privately at Hyderabad and sebsequently at the Bomb is Scottish High School where he remained about five years Returning to Hyderabad he studied for a short time at the St. George's Grammar School at that city whence he passed his Matriculation Examina tion and proceeded to Lingland in September 1804 He studied it Christ's College Cimbridge and took his degree in History in 1807. In 1899 he was called to the Bar at the Middle Temple and in the following year returned to Hyderibad where he was appointed third City Magistrate in the Capital He shortly rose to Chief City Magistrate and in 1907 was appointed a judge of the High Court. His father the Nav ab Agha Mirza Beg Server Jung Server-ud-Dowla Server-ul-Mulk came to Hyderabad in 1870 being introduced to Sir Salar Jung I by General Barrow who was a great supporter of the Mahomedans of Oudh He was appointed Tutor to the two sons of Sir Salar Jung and shortly afterwards to H H the present \izam He retired on the accession of H H to the throne but in 1891 was appointed Chief and Peshi Secretary to the Nizam He reformed the administration of Hyderabad and vas the framer or the famous Khanooncha Mubarack'' constitution of that state He retired in 1896 and His Highness, according to his usual generosity, in consideration of his

great and furthful ervices graciously allowed his old tutor his full pay Rs 2000 per month as pension. On his grandmothers side Navab Zooleader Jung is a decendant of the Imper d Lumby of D lhu. She hear, the nacce of the last Mogal Emperor Baladur She and on h

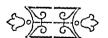


Am ib Zoolcaper Jusc

mother's side he is related to the present ruling family of Loharu His grandfather Mirza Abbas Beg was made a Lilul dur of Oudh by the British Government for his services during the Mutiny. He was granted an estate Ashraf Beg Ashraf-uid dowla one of his grand uncles fought under Lord Like at

the bottle of Koel in the Panjob Haus at will be seen that he family a one of the fore of a India and be deather two meataned above include where wir means the late with a late with a family of the famous Malamedra followed for the Malamedra followed in the famous Malamedra followed in the famous Malamedra followed in the Malamedra followed in the India.

North Zool oler Jung i de s ended from a prest rela ous ladeof Central As a still Ino n is the Sun Sib. Poh, who e show to this diversely held acres I n Sun r He treat , rest crand l li stiel father Marcille in Bes birg of in identurous turn of mind 1 it Simirkhand and with his brother and two sons Mirza Alber B gard Mark Med B, cars to India m the early part of the numberath century vib. and atterserving unddifferent native rules of Northern Indexerme and settled down in Delhi where they were at once given high military commands H's brother Mizam Ashraf Pe, was given the t theof Ashraf ud dos la and another of his grand uncles the famous poet Ghalib for his great contributions to Pers in and Urdu literature received the title of Nation and dowla Dab is at mult Nam Jung During the Mut no h's grandfather, Myza Abbas Beg migrated to Tucknov, where is already mentioned for his great services during those trying days he was given the estate of Birigaon in the Sit ipur District which is still held by his farmly



sent to England by the Government with a view to the completion of his studies He first entered University College, London, and later on Joined the University at Fdinburgh In 1891 he obtained the degree of M B and C M, and at the end of the year returned to Hyderabad, when he was appointed Health Officer in H H the Nizim's service After filling important Medical posts in the Hyderabad Impenal Service Troops, and subsequently as Inspector of Dispensaries, Civil Medical Department, he was promoted to the post of Principal Medical Officer to His Highness's Regular Troops, and in this position he remained from 1897 to 1908 He was in medical charge of the camps of H H the Nizam at the Delhi Durbai, and in 1905 the title of Khan Bahadur Nawab Khedive Jung was bestowed upon him by the Nizam in open Durbar In 1908 he was promoted to the Deputy Directorship of the Civil Medical

Capt Karım Khan is a prominent Mason His Wife, who was formerly Miss Bilgrami, a cultured Mahomedan lady, is an evcellent English, Persian and Arabic scholar, and was the first Mahomedan lady of birth to pass a University examination She is the only daughter of Mr Syed Hussam Bilgrami Nawab Imad-ul Mulk Bahadur, CSI, the Mahomedan Member of the India Council By her Capt Mirza Karim Khan has four children, three daughters and one son

He has contributed to Medical literature a pamphlet in English on Diabetes, and a treatise in Urdu on Ambulance work

Dr. MUTYALA GOVINDURA JULU N IDU, WB, CM (Edin), Striff Surgeon and P WO, Hydera-Rorn at bid Regular Forces Hyderabad in the year 1868 Educated at Christian College and Born at Medical College, Madras, took his degrees at the University of Edinburgh He returned to Hyderabad in 1892, Joining H H The Nizim's service His first appointment was as Medical Officer, Imperial Service Troops He was next appointed P M O of all the Nizam's Regular Forces He also held the post of Lecturer on Medicine at the Hyder ibad Medical School, and is Vice-

President of the Hyderabad Medical Association, and a member of the Committee of the Nizam's State Library In 1898 he was married to Sarojini, daughter of Di Aghorenath



 D_{r} M G N_{AIDL}

Chatterjee, and has issue, two sons and two daughters Mrs Naidu is well known as a poet, and is the author of many poems whose fame throughout India and other countries She also excels as a platform orator Dr Naidu
has contributed several papers to the Lancet and to the Medical

Dr GEORGE NUNDY, (Cantab), LL D (Dub), Inspector-General of Registration and Stamps, and Member of the Legislative Council of His Highness the Nizam's Government Born at Futtehpur in the North-West Provinces 1856 Youngest son of the Rev Gopeenath Nundy of the American Presbyterian Mission Educated at La Martintere, Lucknow, and Calcutta Passed the Entrance Examination of the Calcutta University in 1876 and proceeded Oxford University, England, to study Law In the time of scholarship from the Nizam's Government to qualify in \atural
Sciences Proceeded to Cambridge University where he obtained an

Exhibition, and after graduating there he returned to Hyderabad where he was appointed Professor of Natural Science at the Hyderabad College and Vedical School Later, he again went to Europe and conunued his Law studies at Trimity College, Dublin, obtaining the LL B and LLD degrees On his return to India he was appointed an Honorary Assistant Commiss oner under the British Government, and was sent by His Highness' Government to Berar to obtain experience in Judicial, Revenue and Administrative work Having passed the Departmental Examinations in the higher standard, he served as Assistant Commissioner at Amraoti Akola, and Khamgaon He also superintended a Government Agricultural Farm at Amraoti H s last appointment in Berar was Assistant Commissioner and Judge of the Small Cause Court, Khamgaon In 1887 the Hyderabad Government recalled him from Berar and appointed him First Talukdar He officiated as Deputy Inam Commissioner, Eastern Division, Western Divis on, and Northern Division successively He received his pres-



Dr G VLNDI, WA

ent appointment as Inspector General of Registration and Stamps in 1896

He is also a Member of the Educational Board and a Municipal Commissioner

Doorga Pooja and Doljatra festivals on which occasions they entertained lavishly, inviting



Babu TARAK NATH BANERILE

Pundits and Brahmins from distant parts, distributing alms to the poor, and treating their neighbours to

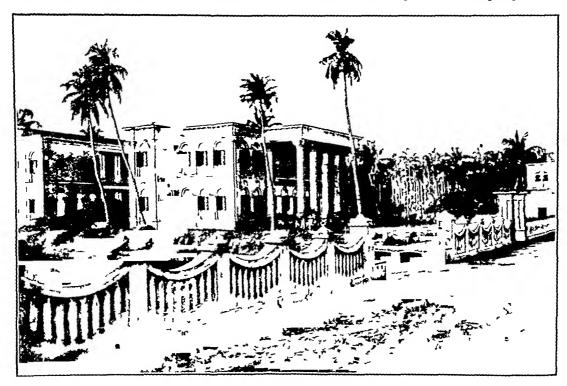
Jatras (plays) and nautches This practice is continued in the family to the present day. The two brothers were also very forward in public spirited acts and opened new roads and improved the drainage in the district. They excavated a large tank at Bansra at a cost of Rs 20,000, for the purpose of supplying good drinking-water to the thousands of boatmen who ply for hire on the salt rivers of the Sunderbuns and to the cultivators dwelling on the banks of these rivers. They also established a school at Garia. These acts have perpetuated their names in the plastaget. Palve Leil Makes Plantaget. district Babu Lall Mohon Banerjee in his time was one of the principal Zemind irs of the 24-Parganas He was a popular man upon whom the public relied His greatest pleasure was to act as peacemaker, settling disputes not only among his own tenants but also among his neighbours His garden at Bansra was a show place, from which he distributed the produce in fruit lavishly among his neighbours, none of it being placed on the market At his death he left

three sons, Bibus Tarak Nath Jadu Nath, ind Dijendra Nath Banerjee His brother Radhanath



Babu DIJENDRA NATH BANKPJEE

Banerjee had only one child, a daughter for whom he made ample provision, adopting his brother's



RISIDENCE OF THE BINERJEE I MILL AT SOUTH CARIA

Indian Pobility & Gentry.

ATTICKOLI \H Sahib of Dilkusha Garden, Dacca, is the 2nd son of the late Nawab \shanollah khan, kcir and a brother of the Hon Nawab Bahadur Salimullah khan kcsi

He was born it Dicca in the year 1881 and belongs to one of the noblest families in Bengal, his grandfather being Nawab Sir Abdul Ghani, KCSI, who was held in great esteem for his loyalty to the



Mr K Arrickollah

British Covernment during the troublous times of 1857, when he refused to leave Dacca although it was left almost entirely unprotected by his firm attitude he prevented the mutineers from plundering the town and neighbourhood

Mi Attickollah inherits the amiible qualities of his father and is a gentleman of refined tristes he is fond of all kind of sports but particularly of shooting, to which he devotes a good deal of time

The BANERJEE PAMILA, South Garia, Thana Birmpore, 24-Pirganas This fimily vis founded by Benovik Banerjee and is of the Brahmin caste. Its early history is obscure and from Benoyak to Ram Ram Bancriee the line is not chronicled Babu Ram Ram Baneriee was an inhabitant of Barasci in the 24-Parganas He was the father of Babu Rundeb Baneriee who left his native district to settle in South Gara son, Ram Kishore Banerice, continued the line and was the father of Babu Gouri Kant Binerice who had two sons, Babus Raghu Sath and Ramrattin Binerjee The younger of these two sons, Ramratan Babu, was an energetic and able character and earned a large fortune in business. He was, moreover, a public spirited gentleman, and the money he amassed was spent nearly all in the cause of charity and works of public bencht He spent i considerable sum of moncy in building the five mile road which has been namel after him, the Ramrattan Banerjee's Road, connecting Garia with Rajpur through Kodalia Changripota in the Rajpur Mun cipality This road which is the only one leading to Calcutta has proved of great advantage to the inhabitants living in its vicinity His charities were on a large scale and he found the greatest pleasure of his life in distributing food to the poor, and resisting his neighbours in distress. His help ng hand saved thousands of famine stricken people from starvation and death. His name became a household word for miles around his residence and continues so to the present day. His munficent liberality depleted his property and he died a poor man, leaving two sons Babus Radhanath Banerjee and Lall Mohon Banerjee. These gentlemen were



BIBU JADU NATH BANERJI E

as industrious and charitable as their father, in whose footsteps they followed. They made considerable additions to the property, and being devout Hindus devoted themselves largely to the service of their religion. They made a special practice of celebrating all religious rites, particularly the

the Bastar State thus become a tributary of Nagpur until the latter State lapsed to the British Government when at the same time Bastar became a British Feudatory. The Bastar State had a population of 300 501 people at the 1901 census and has an area of 13,002 square miles. The northern halt of the state is a plate in at an elevation of 1800 feet with a fairly cool climate. The country is hilly and inhabited by the yild tribe of Gonds who become less and less explired to-

become less and less cavilised to-wards the north-vestern extremities of the State They have little knowledge of agriculture. There are only 2 525 inhabited villages in the State and the languages spoken are Gondee Teluguand Hallee a dialect of H nd. The income of the State is about three lakhs of rupees and the tribute payable to Government is assessed at Rs 20 000 Raja Rudra
Pratap Deo the Chicf of
Bastar vas born on February 18th 1885 and succeeded to the gidt on July 29th 1891 on his father s death. He is an enlightened ruler has ng been educated at the Rajkumar College Raipur He has travelled much in India Of recent vears under his administration the government of the State has much improved There are nov 340 miles of good roads an efficient Police force of 335 rank afid file, and jail accommodation for 148 Education is prisoners provided for by 57 schools including an English Mid-

dle School vhich gave instruction to 4,300 scholars in 1908. There are six Medical Dispensaries in the State under an Assistant Surgeon Vaccination is enforced. The nearest railway station is Dhamtari on the Bengal-Nagpur Railway 135 miles over a good road. The capital of the State (population 4,762), Jagdalpur, is connected by telegraph and is a well laid out town with broad roads and many good buildings, including the Palace just finished at a cost of about a lakh and-a-half of rupees.

Raja KUNWAR LANMAN RAOBHONSIAY of Nigpur Central Provinces. Born in August of the year 1877. The Kunwar Sah b is the pre-ent representative of the old and famous fam by of the Bhonslay Rajas (Maharattas) of Nagpur being the second son of the late Raja Bahadur Linoj Sah b Phonslay the son by adop on of Her Highnes Maharan Darva Ba Sah b Dowager Ran of the last Bhonslay Raja of Nagpur Raghaja III. The title of Raja scherol tary in the



Raja KUNNAR LANNAN RAO BHONSLAN

family, having been originally conferred on Mudhoji Bhonslay by the Emperor Akbar Shah of Delhi The family claims descent from the Maharanas of Udapur the illustrious. Solar race. The early history of the Nagpur branch of the Bhonslay family is involved in obscurity though this certain that they played a prominent part in the subjugation of the country below the Ghats. The first ancestor of whom there is certain mention is Mudhoji Bhonslay who about the year 1690 AD was Patel or headman of Deor

He had served is Slidar under Shidigh and Shivap the great founders of the Mahratta Empre Mudhops is executh in decent from Rana Bhelm Sing of Chitore who was also the incessor of Shivap and of all other branches of the Bhonsles family. The present family are decented from Mudhop through helder son Bip ip though of the seven sons of Mudhop the second Persop was during his I fetime the most described in the wars and on the

return of Shahu Raya from confinement at the Cour-

of Delh in 1707 VD espoused his cause against Taraba is dow of Shabu Raja's unch | For his service-Shahu Raja conferred on Person the title of 'Sona Sah b Subha 'and give him command of an army Person ded in 1709 and his son and successor Kanhop rendering himself obnoxous at Court vas deprived of the office of Sena Sah b Subha and his command which was then conferred upon Raghoj Bhon-lay grandson of Bapuj, Bhonslay This ap po nument took place about the year 1731 Righous as a man of talent and energy and established the Mahr atta supremacy throughout the country between the Nerbudda and the Godaveri rivers and from the Manta hills eastward to the sea He earned the title of Raghou the Great Of his four son- Innop Sabapi

Mudhon and Bimban the

eldest and first named suc-

ceeded him Janon added some territory to his father's dominions on the Berar's de but his chief claim to respect y as his successful internal arrangements and civil administration. He settled y hat his father had conquered and gained the reputation of being the best of the Mahratta rulers of the old Nagpur family. His death occurred in the year 1772 he having previously adopted, with the consent of the Pe shwa his nephew Raghoji son of his brother Mudhoji as his her. But before Raghoji yith his father Mudhoji could reach

son, Duendra Nath, according to the Hindu custom These three brothers now live as a joint Hindu family, and manage their ancestral property, to which they have made considerable additions, in common They are rigid Hindus and have continued the traditions of their ancestors in works of public utility and charity They have made a free gift of a plot of land and a pucca building for a school in the neighbourhood of their residence, opened new roads in the districts, and established a Post Office in the district They have also erected a new and fine family residence at a cost of one and-a-half lakhs of They make a practice of feeding the poor on a large scale two or three times a year and keep up the family celebrations of the Doorga Pooja Doljatra, and all important Hindu festivals They have also done much to improve and beautify the village of Garia with a special eye to the sanitary arrangements and prevention of malaria. It is due to their efforts that Garia stands first among the villages of the 24-Parganas, with broad and spacious roads, clean tanks, and good drainage. In the years succeeding 1901 the crops in the district failed several times in succession, through want of good public drainage. In these years the Baneriee family came forward and saved the cultivators from starvation, giving food and money right and left Babu Tarak Nath Banerjee takes a great interest in agriculture and is a member of the Agricultural Association, Presidency Division, nominated by Government He is a great grower of various descriptions of rice, potntoes, sugar-cane, etc At the Calcutta Agricultural Exhibition held in 1907, he exhibited one hundled varieties of fine scented and prolific rice which elicited universal approval He was also nominated by Government a Jury member of the Session Court, Alipore Babu Jadu Nath Banerjee elected President of the was Garia Union in 1907 an institu-tion for the settlement of disputes, the disposal of accidental deaths, In this post he has acquitted himself to the satisfaction of the authorities and the public Petty thefts of fruit and fish which were

formerly of frequent occurrence have now almost disappeared The new station road which he has opened at his own expense is a monument to his liberality He has earned the praise of successive District Officers, and his services have been officially recognised by Mr Bompas, the present District Officer He has also raised the South Garia M E School into an H E School Tarak Nath Babu has a literary turn and is much interested in poetry He has written a drama "Sadhakmilun" which has been universally admired by the Bengal Pundits for its loftv eloquence Jadu Nath Babu published tv o dramas, "Ragha Bijoy" and "Gobardhon Milon," which successfully played were very by Jadab Chundra Banerjee, of the greatest and best known Opera Company in Calcutta The Pundit Shamaj of Bhatpara, after seeing this play, conferred the title of "Kabiratna" on Jadu Babu, so he is best known as Jadu Nath Kabiratna He is also the author of a poetical work, "Shesh," which has been greatly praised by many of the Calcutta newspapers, and by many of the Pundits in India Dijendra Babu, though his in-come is larger than that of his elder brothers, owing to his being the adopted son of his uncle, looks up to them with respect His tastes he in music at which he is an adept. He has also written a drama best known as Shakti Bikash (1e, The history of Doorga Bari at Benares) Babu Tarak Nath Baneriee is the father of ten children, five sons and five daughters His sons are Doorga Charan, Mohini Mohan, Nirode Buran, Girija Bhusan and one infant boy Babu Jadu Nath has one son, Pulin Behari, three years of age, and two daughters Digendra Nath has one son, Promotha Nath and four daughters. all young children Babu Jadu Nath is a member of the Bangiya Sahitya Parishad and the Sahitya Sabha, learned societies established for the cultivation and advancement of Bengalı literature

The BASTAR STATE—The chronicles of the Bastar State in the Central Provinces of India date from about 850 AD, the beginning of a line of Nagvanshi Kings who ruled

there from that time till about the middle of the fifteenth century A D The Nagvanshi Kings have left many evidences of their rule in the shape of temples at Bersur and inscriptions in the names of Dharavarshadeo, Somarshadeo, Kanhardeo, Jayasınhadeo, Narsıngdeo, etc The present Feudatory Chief of Bastar is Raja Rudra Pratap Deo The ruling family are Somevanshi Kshattrivas and are descended from Prataprudra of the Kaktiya family of Warangal About the middle of the fifteenth century Prataprudra suffered defeat at the hands of the Mahomedan conquerors of Northern India and was slain in battle



Raja Rudra Pratap Deo

His brother Annam fled to Bastar an I there founded the moderr state of that name The family now count eighteen generations in Bastar In modern times the State has lost a good deal of territory The tracts of Kotpad and Salmee were made over to Jeypur, the tract of Sihaya was made over to Nagpur, of Bhargarh to Bindranawagarh, and the zemindaries of Cherlah Longroo, Rakapulli, and Albaka, went over to the Nizam Till towards the end of the eighteenth century the Stateremained independent At this period, however, family quarrels arose, which gave the Nagpur Government of that time an opportunity to interfere From this period tribute was exacted by Nagpur from Bastar, and

ruling kings of the kingdoms of Bais and Arrah, in the Province of Oudh Bahadur Shah was succeeded by his youngest brother, Jalasuddin Shah, who died in 1563 AD, leaving one son and three daughters Dewan Kali Dass Gajdani forsook the Hindu religion and was admitted to Islam under the name of Salaman Khan He married the youngest daughter of Jelasuddin Shah and became Governor of Gour On his death and that of his eldest son, his youngest son Isakhan became Governor of Gour Isakhan

was a turbulent character but a man of great ability He rebelled against the Emperor and ceased to pay tribute The Emperor sent an expedition against him under the command of Isakhan Sahabaj Khan was defeated and fled to Chittagong where he estab lished h mself by violence, having driven away the last ruling king of Jaugalbarı in Mymensingh Isa khan extended his new kingdom and built forts at various places in the Dacca districts The Emperor Akbar hearing of his success sent another expedition under the command of Raja Mansingh Isakhan was again signally defeated by the Imperial troops The tank which Mansingh excavated to commemorate this victory is still in existence and resorted to by numbers of people yearly fair is held at this place which is known as the Jeosh Deghee Isakhan took refuge in the fort of

Egara Sindoo, but was be sieged by Mansingh and forced to yield himself prisoner. The Emperor Akbar, in consideration of his great bravery, received Isakhan with honour and gave him a seat on the right of the Masnad attached to the Imjerial throne and invested him with the title of Masnandali. He also granted him the jagirs of 22 parganus in Eastern Bengal and Assam. He was also made Governor of Eastern Bengal and Assam, and vested with the powers of a Commander-in-Chief. Among these 22

parganas were Bhowal and Serpur which with two other parganas Isakhan on his return gave as a grant to his faithful Ghazi attendants. In this manner the modern area of Bhowal came into existence. The Ghazi Jagirdars of Bhowal settled themselves at Mouza Chaira, near Kaliganj, Bhowal Ghazi securing Bhowal, and the four others the other parganas. Fach territory was named after its Jagirdar and in this manner Bhowal which fell to Bhowal Ghazi came by its name. At the time when the land was made



Kumar Ronfndra Narayan Roy

over to the Ghazis there was a large and prosperous Hindu population as is proved by the ruins of temples and pucka buildings During the rule of the original Ghazi Jagirdars and their descendants, the Hindu disappeared being population destroyed or driven out by the oppression of the Ghazis land was infested with robbers, and gangs of river pirates carried on their operations fearlessly with the connivance of the Ghazis who received a share of their plunder

These gangs of river pirates carried on their ravages even in British times and the last of them was hanged by John Patson, the then Magistrite of Dacca. The Ghazi Jagirdars of Bhowal lost their power owing to misrule and debaucheries. The tribute to the Imperial Government at Delhi fell into arrears and the Nawab ordered the zemindari to be confiscated Doulat Ghazi, the Jagirdar of the time, appealed to the Nawab of Moorshedabad. He engaged Kusadhaj Chakravarty founder of the

present Raj family of Bhowal, an able pleader in the Nawab's Court at Moorshedabad, to plead his cause Through the abilities of Kusadhaj, Doulat Ghazi was enabled to retain Bhowal dhay was appointed permanently as pleader to the Ghazis in the Moorshedabad Court Some time thereafter Doulat Ghazı appointed Kusadhaj his Dewan On Kusadhaj's death his son Balaram alias Jandi Nath was appointed Dewan to Bhowal The debaucheries, extortions and maladministration of Doulat Ghazı turned the ryots to rebellion refused to pay rents and the revenues fell into arrears The ryots then paid their revenues direct to Balaram Rai This state of affairs caused the Em peror of Delhi, through the Nawab of Dacca to grant a Jembadarı sanad ın the names of Balaram Rai and Krishna Ram Ghosh of Gacha Daulat Ghazi was reduced to the position of 1

puppet in the hands of the Jembadars Balaram Rai and Krishna Ram Ghosh were invested with the title of Chowdhuri by sanad From this time the Ghazis lost all power and, in the time of Balaram's son, Sree Krishna, a fresh settlement was applied for, and with the Imperial sanction Sree Krishna Rai was confirmed in his share by sanad, dated 6th Jelbajja A H 1088 Subsequently there was a private partition among the Jembadars Sree Krishna Rai Nagpur, the Government was usurped by Saban, the second brother of Janou, who held it by force until 1775, in which year he fell in battle against his brother Mudhon Raghou then succeeded under the regency of his father being a minor Mudhou died in 1788, and Raghou, who was then 28 years of age, took over the Government nided by his brother Chimna Bapu, the most varlike of the family at that time, Raghou added further territories to his ancestral dominions. He was a popular ruler In 1806 he died and was succeeded by his only son Persoji who, however, was blind and lame, and therefore incapable of government A regency was formed under Mudhoji Bhonslay, better known as Appa Salub, a cousin of Person's death occurred suddenly in 1817 and it was afterwards proved that he had been murdered by the regent, Appa Salub As Persoji left no son, Appa Salub ascended the throne Up to his access on Appa Sahib had professed friendship for the British, but thereafter he speedily rendered himself obnovious His conduct led to his arrest in May 1818 On the road to Allahabad under escort he managed to escape disguised as a sepoy. He was deposed, and an heir was found in a grandchild of Raghoji through the female line, who was adopted by his grandfather's widows He took the name of Bhonsla and was recognised as Sena Salub Subha Raja Raghou III During his minority the Nagpur territory was administered by the British Resident acting in his name. He was permitted to assume the government in 1830 and retained it till his death in 1853 He died without issue, and the Nagpur territory was therefore annexed to the British Dominions surviving widows of the last Raja adopted as their son and heir Yeshwant Rao Aher Rao, great-grandson of Raghoji II through the female line Her Highness Maharani Bankabha Sahiba, widow of Righon II rendered eminent services to the British during the troubled time of 1857 and in reward for these, and the general lovalty of the family the British Government recognised the adoption of Yeshwant Rao v ho afterwards issumed the name of Janoji Bhonsla. In 1861, the title of Rya Bahadur

of Deor and the lands of Deor, a village in the Satara district of the Bombay Presidency were conferred upon Raja Janoji and his hers, whether natural or by adoption, in perpetuity He also received a political pension of Rs 12500 per month His death occurred in 1881 He left two sons, Raghoji Rao by his second Rani Inura Bu Sahiba, and Luxman Rao by his third Rani Kashibai Sahiba His senior Rani, Laxmi Bai has only one daughter, Bhagirathi Bai At the death of the Raja Janoji both sons were minors, aged 9 and 4 years respectively elder married Gojra Bai Sahiba. daughter of Pratap Rao Gujar of Satara, and Luxman Rao the younger married in 1891 Annapurnabni Sahiba, daughter of Himmat Bahadur Shreemant Anand Rao Salub, Gaikwar, CIE, natural brother of Hs Highness the Gaikwar of Baroda The Court of Wards managed the estate during the minority of the bro thers, and their education was entrusted to European tutors, Mr II St John Kneller and Mr II St John kneller and Oswell the latter being now Principal of the Rijkumar College, Raipur In 1898 Kumir Luxmin Rao attaining his majority, the estate was partitioned between the two brothers by an arbitrator appointed by the Government On the partition the estate of Raja I uxman Rao known as the "Junior Bhonslay Estate, W 1S entrusted to the management of Mr Maneckiee Byramjee Dadabhoy, Bar -at-Law, of Nagpur He was succeeded in the management in 1906 by the present Manager Mr Narayan Rao Narhar Vyasa In the estate there are 12 Mokassa, or rent-free villages, 57 Wakta or quit-rent villages, and 41 Mal-guzari or revenue paying villages The gross revenue is about Rs 1,20 000 The Kumar Sahib also enjoys a political pens on of Rs 12,000 per annum His share of the family jevels is valued at 15 lakhs of rupees. The Kumar Salub is a good sportsman ithlete and horseman a fine spec men of Indian manhood and very popular with all communities including the European officers in Angpur where his residence s

the present Manager of the estate was first in the Court of Wards as Deputy Manager, and when the estate was returned in 1000 h s services were transferred. He was first appointed Deputy Manager and in 1906 Manager of the Junior Bhonslav

The BHOW \L R\J Th s mportant zemindari estate is situate in Eastern Bengal near Dicci The Raj has a very ancient record and dates from prehistoric times tradit on alone recording its beginnings. It is thus known to have covered a portion of the incient kingdom of King Sisupala of the Mahabharata By its postion north of the river Buriganga Bhowal has been identified vit Kamakd ya which formed a port on of the Chedi kingdom of those ancient times Authority for this belief is found in the Tantras North of Bhowal ancient ruined buildings mark the site of the capital city of King Sisupala of Chedi. This site is now known as Deghalichit \t the fall of the Chedi dynasty tradit on asserts that a race of low caste kings ruled in Bhowal Two of them were Protap Roy and Prosonno Roy, twin brothers, Chandals by caste Their capital was north-cast of Mouza Rijabari and 12 miles from Jaideb pore, where the old ruins are still visible. During the reign of these Chandal kings a new dialect known as Chisa Nagri was the court language Manuscripts vritten in this dialect are even not to be found among the Chandals of Bhowal and some of them at the present day, keep their accounts in the Chasa Nagricharacter Tradit on has it that the tvin kings above referred to vere killed in battle and with their the Chandal dynasty of Bhoy al ended. In the anarchical times v hich followed for many centuries the history of Bhoval d sappears It appears probable that the vars which followed the destruction of the Chandal dynasty destroyed or drove iv av the population and the places is lud barren Bliov al reappears in h story during the reign of Bihidur Shih Governor of Gour Hs Devan vasa Handu Raja Kal Dass Singha Guidan the first of the

which infested Bhowal He started Khedda operations and established a tea estate which, however, were afterwards abandoned Raja Kalı Varain extended his possessions by the purchase of properties near Dacca and adjoining the estate of Bhoval, besides residences Dacca, Calcutta and Benares He constructed roads, notably the road joining Jaidebpore with the Dacca-Mymensingh road These great improvements in communications were all carried out at his own cost He also br dged the Chalm and Tangi

rivers Raja Kali Najain was forward in all publicspirited work He established an Entrance School at Jaidebpore and also a Churitable Dispensary and Post Office and Vernac ular Schools at Barra Baktarpur and other places in Bhowal South of the palace of Bhowal he built a rest house for Europeans, known as the Guest House Raja Kali Narain was loyal to the British Government and was of great ass stance in putting down crime He received the thanks of Government, notably for his services in the airest and conviction of certain muiderers Among hs other purchases for the extension of the property was the acquirement of his Fulbina Zemindary from Mr Wise in 1872 \ D Mter a long life spent in useful vork and the able management of his property Raja Kali Narun Rai breathed his last in the year 1878 \ D leaving a son Raja Rajendra Varain

Ru having appointed Baboo Kili Prosonno Ghose (now Ru Bahadur & C. I. E.) of Bharikair in Vikrampur is tutor. Raja Rijendia Narum Rai when he cime of age left the management of his property in the hands of his formulator. The Rija was a man of fine bearing who preferred to devote his leisure to the cultivation of the arts and sciences. His chief recreit on was hunting and he had uccess to the society of European officers, with whom he was very popular. He was an adept in en

gineering ind photography and was a frequent contributor to English and vernacular journals. He was charitable and took pleasure in acts of benevolence. He travelled wide ly, visiting the other native princes of India, and he built a house at Darjeeling where he stayed during the summer months. In his time a partition was made of the 7-anna estate by civil suit which very much consolidated the position of the Jagirdars. He also purchased further interests held by Mr. Wise and thus improved the estate.



Kumar Romendra Narayan Ros

Rajendra Narain died in the year 1901 He was universally respected and beloved At his death the estate was taken over by his widow, Rant Bilash Mant Devi by virtue of n deed of trust executed by the Raja He left three sons and three daughters, the sons are Ronendra Narayan, Romendra Narayan and Robindro Arrayan But at this time there were some troubles Baboo Kali Prosonno Ghose continued as Chief Manager, but was opposed by the father-in-lay

of the eldest Kumar Bahadur, who interposed on the pretext that the Raj was encumbered with debts, and with the connivance of certain relations and consent of the Dowager Rani, personal government was established Baboo Kali Prosonno Ghose then left and his assistants resigned His services were then dispensed with, and the father-in-law of the eldest Kumar worked as Manager in his stead Others succeeded him and in the end the eldest Kumar applied to Government to place the estate

under the Court of Wards, which was accordingly done ın 1904 Under orders of Mr H Savage, CSI Member, Board of Revenue, Bengal, charge of the estate was taken from the Rani by Mr J T Rankin, ICS, Collector of Dacca The management was then placed in the hands of Mr Heard, a Deputy Collector An application by the Rani for the release of the estate was rejected by Sr Lancelot Hare, who was the senior Member of the Board of Revenue, Bengal, at the time The dispute would have ended in a lawsuit, and an application was actually filed in the High Court of Calcutta for the release of the estate, when Sr Lancelot Hare brought about a reconciliation between the Rani and the Kumar Bahadurs, and released the estate Under the Leutenant-Governor's advice, Rai Jogesh Chander Mittra Bahadur, a retired District and Sessions Judge, was appointed Chief Manager and he took charge

in March 1904 Rai Jogesh managed affairs in a tranquil manner until the sudden death from cholera of the Rain at Calcutta in 1906 In commemoration of the memory of the deceased Rain Belash Mani Devi the Kumars re-established the Entrance School at Jaidebpore Since 1906 failure of crops lessened collections with the result that the finances were hampered Disputes as to the management have also again troubled the proprietors. The Dowager Rim Sattya Bhama Devi,

obtained a 7-anna share, Krishna Ram of Gacha, 7 annas, and the Palasona Ra', 2 annas The Jembadars granted an allowance at first to the Ghazi proprietors, but 30 years later the allowances were withheld, in consequence of which disturbances ensued but in the end the Ghazis were defeated and put down A very few of the descendants of the Ghazis still survive and live as ordinary cultivators in Bhowal, chiefly at Chaira, Jangalia and other villages they are even now held in great

they are even now held in great respect. In the year A D 1704 the last of the Ghazi descendants named Sultan Ghazi brought a civil suit against Kirbi Narain Rai of the Jaidebpore family and Ram Chandra of the Gacha family to recover his alleged title to, and possess on of Bhowal By a judgment of the Sadar Nazamut dated 17th May 1704, the Ghazi lost his claim With the decis on in this case the claim of the Ghazis of Bhowal ended and the Jaidebpore and Gacha proprietors became the undisputed landlords of Bhowal The judgment is still in the possess on of the Bhowal proprietors From that date the Bhowal property has passed to the descendants of Kusadhaj Rai On the death of his son, Balaram Rai, the two elder sons of the latter declined to accept the Dewanship, which was accordingly conferred at his own request upon the youngest son, Sree Krishna Rai It was in Sree Krishna's time that the

Arishna's time that the settlement of the property in the present line took place. Sree Arishna's youngest son, Jaideb Airain Rai Chowdhury, succeeded his father, supplanting his elder brothers who were men of inferior calibre. The Jaidebpore village in Bhowal was named after him. He consolidated the property acquiring the two-anna share (one-eighth share) belonging to the Palasona Ghosh family and thus holding more than half of the property. His management of the estate was

most able and he was in great favour with the settlement officer of the Moghal Government A sanad with a monthly grant of Rs 75 was conferred on him by Nawab Jain Hooseein Khan, and a second sanad with a monthly grant of Rs 100 sicca rupees in consideration of his meritorious services This sanad is dated 4th Jelkoa A H 1126 (A D 1708) Jaideb Narain managed the estates for 45 years till his death In the time of his son Indra Narain Rai, who succeeded



Kumar Robindra Narayan Ros

him, the Ghazis again gave trouble, but were defeated by the efforts of Pitambar and Kamdar Rai of the Jaigebpore family. During the troublots times of the eighteenth century the history of Bhowal was marked by the disorders then prevalent. Riots were of frequent occurrence and oppressions of all sorts were practised. The Raja of Rajnagore in the time of Bejoy Narain, taking umbrage at the neglect of the Bhowal Jagirdais to attend his court, sent an armed force

and made prisoner the 7-anna pro-Bejoy Narain, the 9-anna prietor proprietor, escaped at that time The former was forced to sign a relinguishment of his 7-anna share in favour of the Raja to get his freedom Bejoy Narain was subsequently captured by the Raja but proved very difficult to intimidate While in confinement he managed to get hold of the deed of relinquishment and destroyed it before the Raja's face No intimidator could force Beloy Narain to relinquish his rights The Raja ultimately released him

as a tribute to his courage Some time after one Mr Wise got possession of a considerable part of the 7 anna share and constant disputes with riots and civil and criminal proceedings arose Much loss of life was occasioned in the faction fights which took place In the year 1851, however, all was amicably arranged by the purchase by Golak Narain Rai of Mr Wise's portion of the 7-anna share amounting to 4 annas 9^1_4 gandas 13 karantı for the sum of Rs 4,46,000 or about one lakh per anna share This date the 26th of Poush 1258 BS (1851 AD) is a memorable one in the annals of Bhowal masmuch as this transaction brought the share of the Bhowal Raj family to 13 annas 94 gandas 12 karanti, and by thus placing an overwhelming share in the hands of the family secured peace for a long period in Bhowal Golak Naiain Rai also took up Mr Wise's unexpired leases

in Bhowal By the month of Sravan 1268 BS (1861 AD) the whole of the purchase-money was paid off owing to the exertions of his son, Kali Narain Rai, who managed the estates ably during his father's lifetime Raja Kali Narain Rai did much to consolidate the position of the family He moved in the society of the European officers, with whom he was very popular He was a keen sportsman and organised, in company with Europeans, shikar parties to exterminate the wild animals

ment of trade Inaddition, a pleasure resort, the Nedhan Park, has been established for the recreation of the public In recognition of



Mr G M CHITNAVIS, CIL

his legislative work during the first two years Mr Chitnavis was created a Companion of the Order of the Indian Empire in May 1895, during Lord Elgin's Vicerovalty In the year 1897 Mr Chitnavis was honoured by the offer of the office of Minister to Maharaja Holkar, which however he found himself unable to accept In 1898 and 1899 he received the thanks of Government for the great assistance he rendered in connection with plague and famine in Nagpur He was offered the Presidentship of the Indian National Congress during the session of 1900, but was compelled to decline owing to want of sufficient He has always taken a deep interest in educational matters and has long been President of the Neil High School and a member of the Morris College Council Also he has been for many years President of the Native General Library, an institution which is fast develop ing under his fostering care. In recognition of his earnest work in the promotion of education in the Central Provinces his name finds prominent mention in successive educational reports of the Province In addition Mr Chitnavis has bent his energies tov irds business and for the last eight years has been Chairman of the Pulgaon Mills, during which time the concern has made great progress. His assistance to Government in the attempt to conciliate agricultural debts in his large estates was cordially acknowledged by Government In general Mr Chitnius has shown comprehensive knowledge of matters affecting public interests and his work has been recognised by the highest authorities including I ord Elgin Sir Antony McDonnell, the Inte Sir John Woodburn, Sir Charles Lyall, the late Sir Denzil Ibbetson, Sir Indrew Traser and the Hon'ble Messrs Miller and Criddock others with whom he has come into immediate contact over public The good feeling between affairs Government officers and the people had increased since Mr Chitnivis took the lead in public affairs in Nagpur, until it was recently disturbed by some agitators, and he has won the good opinions of both the rulers and ruled. At the Coronation of King Edward VII Mr Chitnavis was elected to be the representative of the Central Provinces in honour which he had carned by years of hard work in the public interest. In 1907 and 1908 Mr. Chitnavis was again appointed a member of His Excellency the Viceroy's Legislative Council

The Inte Rii PASHUPATY NATH BOSE, Zemindar Born of i distinguished Kiyastha family in the year 1855. His life was spent in the management of his large an eastral estates in the districts of Giya, Pitna, Lohardaggi 24-Pergunnahs, etc., and he was known as a just and sympathetic landlord His leasure was spent in works of charity, and the idvocacy of the Swadeshi cause, of which he was one of the earliest movers and a leader In support of this movement he acted as Honority Treasurer of the National Fund established in 1906, and devoted his energies to preach-

Swideshi ny lectures rymen at Although

he did not pursue his studies as a youth up to the University stand-

ird, he was a min of considerable natural culture and acquired a thorough knowledge of the English language and literature, and was also 1 good Bengah and Hindustanı scholar His literary turn enabled him to collect an excellent library, but studies were ch efly directed to matters of a practical nature, dealing with the causes he had at heart His advocacy of what he considered his country's interests was carried on in a manner which did not forfeit him the esteem of the authorities, and in his extended circle of friends he numbered many European gentlemen of rank and position In



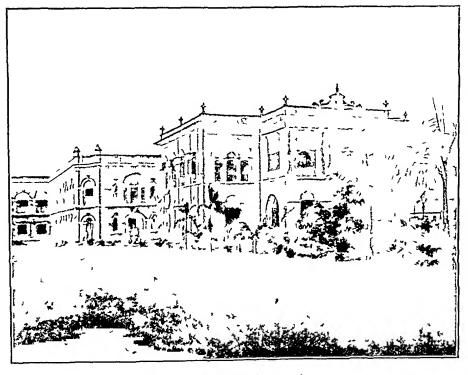
The lite Rai PASHUPATY NATH BOSE

aga n brought up the father-in-law of the eldest kumar Salub and interfered in the affairs of the Raj Raj Jogesh Chandia found he could not work harmomously. The Collector of Dacca pressed the Kumar Bahadurs to appoint n new Manager On their selection he got the Government to appoint Mr Juansankar Sen PCS MRAS (London) The Ray now stands greatly rehabilitated Kumar Ronendra Narayan has been elected by the Landholders' Association to the Listern Bengal and Assam Legislative Council The second Kumar Romendra s a keen sportsman The third Kumar Robindra is giving his attention to the development of the internal resources of the estate. The ramindari extends over Districts. Daca Mymensing Backergung and Tipperah The capital is at Ja debpore, 20 m les north of Dacca and half-an hour by rail Beautiful jungle tracts exist and there are reserved ireas for shikar - A g ft of Rs - 25 000 to the Ingannath College has recently been made

Mr GINGIDHIR RIO MID-HO CHITNAVIS, CIE, Zeminday and late Member of II E the Viceroy's Legislative Council Born in the year 1863 Educated at the Tree Church Institution at Nagpur and Elphinstone College Bombay Mr Chitnaxis comes of a family long prominent in the Central Provinces In pre-British times many members of the Chitnavis family vere in the service of the Bhonsha Rijis of the State of Nagpur to whom they furnished a long line of Chief Secretries Ambassidors and Prime Ministers One in particular Krishna Rao Madho Chitnavis was Prime Minister to Raja Raghoji II of Nagpur Midho Rao Ginga-dhar Chitnavis the father of Mi G M Chitnavis, vas held in high respect both by Government and the people Sir Rehard Temple vrote of hm in 1563 'He vas a native gentleman of superior abilities an Honorary Magistrate and a zealous and useful c tizen He was considered one of the best men in Nagpur' He died in 1885 and Mr G M Chitnavis was accordingly called upon to abandon his

educitional career and return to his country of Nagpur There three years later he was first drawn into public life and took an active part in local public afta is to which he has continued to devote his abilities ever since. In this year he was appointed President of the District Council of \agpur, \h ch position he has filled ever since with credit In 1889 he was appointed an Honorary Magistrate of the 1st clasand for some time he held the pe tion of President of the Loka Sabla a people's association. He hadde along been a prominent member of the committee appointed to run se the several Bhonsla temples not it is acknowledged that the manage ment of these temples under Mr. Chitnavis' guidance h been ill that could be desired. If ecount are well lept in the Light shirt inner the buildings have been and near in thorough repair in ult - ble nttention has been jaid to mipro e ments. In his capacity of Heneraly Magistrate Mr Chitnavis has carnot the confidence of the authorities He has received approbation for his criminal work in almost ill the

criminal reports of the Province In 1893 \ur Chitnivis was elected a member of the Legislative Council of His Excellency the Viceroy as representative of the Central Pioxinces He held this position till 1805 and was again elected in 1898, serving till the following year He took part in much important legislation including the Import Duties Bill the Criminal Procedure Code, and the Central Provinces Tenancy Bill His work in connection with the latter, in which he was deeply interested, was of particular value As President of the Nagpur Municipal Committee Mr Chitnavis has shown himself progressive His term of office has been characterised by improve ments, notably in the lighting of the streets and the upkeep of roads. The samtary arrangements have been greatly improved and markets have been established for the encourage-



JAIDIBIORP PALACI, BHOWAI KAJ

bute payable to the British Government is Rs 1,062 Baripada Town, which contains the head quarters of the State, the residence of the Maharaja and the seat of his administration, is connected with Rupsi Junction on the Bengal-Nagpur Railway by a narrow gauge branch line 32 miles in length which was opened for traffic in 1905 town is connected by metalled roads with Bahulda and Karangia, the head-quarters of the out-lying subdivisions, and also with the towns of Balasore and Midnapore

The affairs of the State are in a flourishing condition, and the Maharaja is an advanced and enlightened administrator He was honoured with the title of Maharaja on the occasion of the Proclamation of King Edward VII, Emperor of India, on the 1st January The family title "Bhanja", ("breaker") is said to have been assumed after the victory obtained over the Chieftain Mayuradhwal, to which also is ascribed the present name of the The emblem of the Chief's family is a State peacock, tradition asserting that the family sprang from a peafowl's egg The peacock was in consequence strictly protected and the killing of this bird was prohibited in the State Within the in the State territory there are numerous ruins of ancient temples, tanks, etc , especi-

ally at Kiching near Adipui, which indicate considerable prosperity in ancient times One temple erected in the year 1572 by Maharaja Baidyanath Bhun Deo to Jagannath is still in existence, and is visited by thou sands of pilgrims In former times the State of Mourbhan was known as "Jhar-khand" on account of its dense and inaccessible forests. In former times, prior to 1803, the Chief of the State was a feudatory of the Mahratta power In 1829 by a treaty entered into by Raja Jadu Nath Bhun Deo Bahadur with the

British Government, the former eng iged to maintain himself in submission and loyalty to that Government

The late Babu ANANDA CHUN-DRA DAS (Baisnab), of Chingri-hatta Road, North Entally, was born in 1803 He came of an old Nama-Sudra family of Kanaichack, He came of an old Tumluk, in the district of Midna-His father, Nimai Chand Mondal, was an agriculturist, and was not at all well-to do His son, therefore, owed his progress in life

entirely to his own exertions, and

The late Bibu Ananda Chundra Das

was in every sense a self-made man His early life was full of vicissitudes which he met with an undaunted spirit, and he in time became a wealthy man, possessed of properties valued at no less than seven lakhs of rupees He lost his parents early in life, and shortly after this the homestead in which he resided was swept away by a heavy flood Of literary education he had very little At an early age he journeyed to Calcutta in the hope of making a livelihood in that city, his sole possessions at that time

being a few pice and the clothes in which he stood But as he was a perfect stranger to the place and destitute of any pecuniary means, he encountered nothing but hardship for some time, and he was forced to beg from door to door for food and shelter Fortunately however, at this time he got himself acquainted with 2 noble-hearted European lady who took him into her confidence and helped him with a sum of Rs 100 to start a straw-business at Tangra Entally, which proving to be of great profit to him, became the real foundation of his pros-

Henceforward his career was marked by uniform success He proved himself a good man of business, and continued to amass wealth until he had attained the position of a big Zemindar, with extensive which he managed with great properties pecuniary advantage to lumself

although his worldly prospects were of the best domestic affliction came upon him, and he lost his wife who had been his devoted help through all the early part of his life, while he was fighting poverty and ill-fortune This bereavement affected him sorely and for a time he was inconsolable But being a man of strong religious convictions, he eventually found comfort and turned his thoughts to a future world He became a convert to Baisnabism, for which he had had a strong predilection from

his earliest manhood He assumed the name of Paramanda Babaji, by which title he was latterly best known, and cutting off all connexion with his family he practically retired from worldly affairs, and henceforth lived the life of an ascetic He conformed to all the rules of the brotherhood and practised the greatest austerity in the solitude of the Thakurbari which he established on a suitable site, not far distant from his dwelling-house and in which he had enshrined the images of the deities, Krishnaji and his charties he was discerning and profuse. He was continual in his



Mr AMILIA NATH BOST

cfiorts to ud indirase the poor and made it a prictice to extend help to them by distributions of food and in other vivs. At the time of the floods in Cilcutta in the veir 1900 he lodged in his own house and supplied with food some 300 helpless people and enabled them to tide over the days till the floods subsided

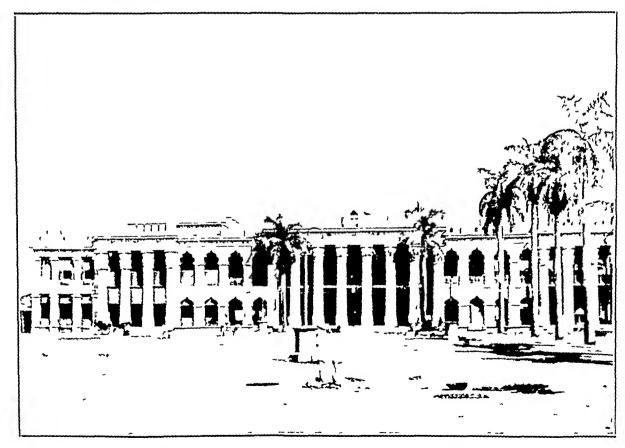
He was appointed one of the Commissioners of the Calcutta Municipal Corporation in the year 1894 and continued as such for a per od of 3 years in which time he not only made various improvements as to roads and lights but he tried his best to remove the grievances of the inhabitants of those Wards of which he was the Commissioner

The aim of his life was to import proper and su table education to poor and helpless boys. To satisfy this intention he lodged in his own house some to or 12 boys every year to give them proper education and supplied them with the necessaries of life. When anyone of them

vent out after passing the final examination his place vas filled up by



Mr. AMAR NATH BOST



CALCUTTA RESIDENCE OF THE EATE MP. PASHURATY NATH BOST

extend some eight centuries back and are contemporaneous with the rise and establishment of the present ruling family. Much of the first part of this history is, of course, legendary, but with a strong substratum of fact. These legends have their lise in the historical fact of the conquest of the Chandal kingdom of Mahoba in the Central Provinces by Prithi Raj Chohan, the last Hindu Emperor of Delhi As a result of this conquest, there was a dispersion of the Chandal chiefs, who, in the manner of the

times, set out to conquer nev provinces and principalities for themselves The Chandail estates of Aghori, Barhar Bardi and Bijeigarh vere established in the Upper Provinces by these fugitives The present ruling family of Gidhour are Lunar Rajputs of the Chandail clan, and trace their descent from the Chandails driven out Mahoba by the Emperor Prithi Raj Chohan who established themselves in the Upper Provinces as above narrated A few generations after these events the legendary account states that Bir Bikram Sah, the younger brother of the Chief of became much troubled in mind at the dependent position he occupied, considering that he was a burden on the family, resources this condition he In dreamed a dream in which he thought he was

directed by the god Shiva to undertake a pilgrimage to Baidyanath In his dream he further saw the god Shiva drawing three lines with ashes across his forehead, the three lines forming the "Tripundra" or emblem of the worshippers of Shiva As a consequence of this dream, he consulted the sages of the palace and they, recognising the mark of the "Tripundra," advised Bir Bakram to set out as soon as possible on his pilgrimage to Baidyanath Bir Bakram accordingly undertook the pilgrimage with a following The

sacred shrine of Bridyanath is adjacent to the extensive tract of country it present known Gidhour, and at that time ruled by a race of Dusad Rajas Bir Bakram with the instinct of the conquering race of Rapputs determined that this desirable country should be his, and lost no time in carrying his project into effect. The Dusad Rajas were expelled and Bu Bakram ruled in their stead. The estate generally prospered under its new rulers and its history vas fairly uneventful until the reign of Akb ir



H H Milian ya Sir Raffalshwar Prosid Singh, KCIL

the greatest of the Mogul Emperors of India, at which time Raja Puran Mal of Gidhour, eighth in descent from Bir Bakram, the founder of the Raj, was reckoned one of the most powerful of the Chiefs of Behar There is evidence still existing of the respect in which he was held in the edifice over the shrine at Baidyanath, an inscription on which ascribes it to Raja Puran Mul's devotion to God, in which inscription the Raja is described as "Nripati" or "king among men" The house of Gidhour stood in

prominence throughout the period of Mahomedan rule in India of which there is evidence in Royal firm ins and letters in the possession of the family. When the rule of the country passed from the Moguls to the British the rulers of Gidhour were found no less active or prominent. In the middle of List century Maharaj th Jumongul Singh of Gidhour distinguished himself by his viluable services in aiding first in the suppression of the Santal rebellion of 1854, and secondly by his strunch support of the British

in the suppression of the fir more serious and sangunary Sepoy Mu tiny These services were gratefully acknowledged by the Government v ho rewarded the Waharajah substantially by grunt of a Jagir and in other ways and bestoyed on him the honour of the insignia of the Knighthood of the Star of India the Maharajah being the first noble in Behar to atten that distinction Maharijah Sir Jamongul Singh was an enlightened man of great public spirit no less distinguished in the cause of peace ind progress than he had proved lumself in wir as was proved by his magnificent free gift to the East Indian Rulway Company of all the lands they required within his state for the chord line of their His life was railway devoted to the public good and his charities, especially during the

famine of 1874, were munificent In the year 1867, the Maharajah Sii Jaimongul finding his powers failing, according to the custom of his family, installed his eldest son Shiva Prosad Singh on the "gadi," and retired into seclusion. In this manner he lived till the year 1881 when he died. Maharajah Shiva Prosad Singh, Bahadur, did not long survive his father dying four years later in 1885. His memory also is held in great respect as a just ruler of noble character. The present Hon'ble Maharajah Sir Ravenehswar.

his consort Radha, before whom he performed his devotions. Here he passed the remainder of his life in meditation and devotional evercises, performing the Rashjattra, the Dolejattra, the Rathijattra, and various other religious ceremonies in accordance with the tenets of Baisnabism, commemorating the advent of the divine incarnation at enormous expense every year. Until while in communion with his deities he quietly expired on the 14th day of Pous, 1315 B S, corresponding to the 29th December 1908

He left as his successor and sole heir one son—the fourth of a family of five, the remainder of whom had pre-deceased him. Owing to his numerous acts of charity and benevolence he had endeared himself to a large number of people and on his death no less than four thousand of his friends and acquaintances attended to pay their last respects of the dead man. His only surviving son, Rada Nath Das Chowdhuri is proving himself a worthy successor to a worthy father.

Mr TARA PADA GHOSE. Zemindar, 14, Puddapukur Street, Kidderpore, Calcutta Born at Kidderpore on the 19th August 1859, he is the only son of the late Babu Srish Chunder Ghose and Srimati Annada Sundary Dassi, and grandson of the late Babu Mohon Chand Ghose the founder of the family Mohon Chand Ghose was born in the year 1801, at Sripore, his native village (Pergana Naihati), District Khulna, and was a Persian scholar He and his brother Tara Chand commenced life with nothing, but by their talents and energy had succeeded in building up a fortune of several lakhs of rupees Tara Chand died childless in 1858 at Midnapore, where he was the Deputy Magistrate and Collector, bequeathing his share of the property to his elder brother, Mohon Chand, who had two sons, Srish Chunder and Jogendra Chunder

His eldest son, Srish Chunder, was one of the first batch of graduates of the Calcutta University He was a young man of promise, but unfortunately on account of a misunderstanding with his father, Mohon Chand, rashly ended his own life before he had completed his 24th year. This melancholy event

which occurred in 1860, caused his father, who had already withdrawn from service in the Revenue Board where he was Shcristadar in February 1861, early in the same year, to go on pilgrimage in boats, as the railway was not completed then, to the holy city of Benares with his whole family where he died brokenhearted in Janu21y 1862 The young Tara Pada was thus left to the care of his widowed mother, and under the guardianship of his uncle, the late Babu Jogendra Chunder Ghose, the well known Positivist He was educated privately In 1889 and 1890 Mr Ghose effected an amicable partition of his half of the ancestral property from that of



Mr TARA PADA GHOSE

his uncle Babu Jogendra Chunder Babu Hem Chunder Bannerjee, Poet, and Government Pleader of the High Court, a mutual friend of both parties, acted as sole arbitrator to their entire satisfaction within the short space of 6 months Mr Ghose's zemindary estates are situated within the suburbs of Calcutta and in the Districts of 24-Perganas and Khulna, the bulk of which are the Sunderbun waste land grants under the old rules (99 years settlement) He has proved a good landlord and in time of trouble has always come to the aid of his tenants He has made many improvements

in his Sunderbun Estate, including the excavation of tanks with masonry ghats, and starting and establishing markets for produce Water being the first necessity of life, he has relieved not only his own tenants but also thousands of others of the struggling mass of humanity in and around his estates

Mr Ghose has devoted considerable attention to study and has made himself by learning and reflection an unique type of an Indian nobleman He is very liberal in his views, a humanitarian and an advocate of the reformation of India after the European model In religion he is broad-minded, and believes that the essence of all modern religions is the same Mr Ghose married Srimati Giriballa Dassi, eldest daughter of the late Babu Rajendro Nath Ray Choudry, zemindai, Taki Soidpore, District 24 Perganas, in the year 1878 He has three sons, Masters Bankim Chunder, Bimal Chunder and Nirmol Chunder, and two daughters, Mrs Benoynee Bose and Miss Shudha Mukee Ghose In habits of life and thought, Mr. Ghose is more of an Englishman than a Bengalee His favourite amusements are riding, driving and target shooting. He is a great lover of horses He is an Honorary Magistrate of the independent Bench of Alipore, and a member of the District Board, 24-Perganas, and a member of the B I Associat on, Calcutta

GIDHOUR The principality of Gidhour is situated in a hilly and rugged district in the frontier provinces of Behar, between the province of Bengal proper and that of the Upper Povinces of India Although directly on the line of march of the conquering armies that have so often descended from the North into the fertile plains of Bengal below, it has always enjoyed comparative immunity from attack on account of the difficult nature of its territory In time of trouble the people of the neighbourhood have always been secure in the hills of Gidhour In common with most parts of India the history of Gidhour is involved in obscurity for the first millennium of the Christian era. Its annals

In the matter of the Land Records Maintenance Bill in January 1895 he supported his colleague, the late Maharajah Su Luchmeswir Singh of Durbhanga On the occasion of the Birthday Honours in 1895, Her Unjesty the late Queen Empress Victoria created the Maharajah i Knight Commander of the Order of the Indian Empire, a distinction he had fully earned by his services to the State This honour was much appreciated in Behar. On the 29th November 1895, the insigma of the Order vas presented to the Maharajah at Belvedere by Sir Charles Elliott So high a value was set on the services of the Maharajah that he was appointed to the Bengal Tegis-

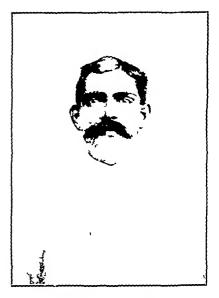


Mr MAHONED FSSA

lative Council for a second, third and fourth term His efforts were directed on all occasions to practical matters He endeavoured, though unsuccessfully at the time to reform the weights and measures of Behar He drew attention to the great inconvenience suffered by litigants from the practice of subordinate Magis trates reserving judgment for long periods, and action was taken in this by the authorities In 1900, Gidhour was honoured by a visit from Sii John Woodburn, then I teutenant-Governor of Bengal His Honour opened the Charitable Dispensary built by the Maharajah Bahadui to commemorate the Diamond Jubilee of Queen Victoria In the following year the Rapput community exhibited their esteem for and confidence in the Mihirajah by electing him President of the Rapput Moha-Sahah held at Lucknow In 1902 the Mah unjah received mother proof of the esteem of Government in being selected to represent Behar it the Coronation of King Edvard VII but was precluded from attendance by local iffairs. He however attended the Coronation Durbar at Delhy Su Indrew Iriser marked his apprecirtion of the Maharajah's services in the Council by paying the Maharaj ih Bahadur i complimentary visit at Gidhour in February 1903 On the occasion of the visit of His Royal Highness the Prince of Wales to Calcutta in 1905-06, the Maha rainh was elected by the representatives of Bengal is one of the canopy holders to the Prince On mini occasions the Maharijah his entert uned the leading people of the land at Gidhour In 1907, he was favoured by a visit by His Excellency the Viceroy the Countess of Minto, and the Ladies Elliot and a party from Government House The Mihiriph commemorated this visit, the first that a direct representative of the Sovere gn had paid Gidhour, by building a clock tower over the main road of Gidhour and with the consent of His Excellency, to whom he announced his intention in an iddress on that occasion, called it the "Minto Tower" In 1906 the Maharajah performed good service as a member of the Committee to revise the Bengal Tenancy Act The Maharajah has always been distinguished for his generous disposi tion and charities, and it was a great pleasure to him to be appointed by Her Excellency Lady Minto, one of the patrons of the Minto Fancy Fete in aid of public charities In all such cases the Maharajah has been ever active, and his donations. public and private, have been generous The Maharajah worthily upholds in all things the dignity of his ancient race, and is in the best sense a representative of his ancestors, the warrior chiefs of old His estates are prosperous, he is blest with an heir of promise the Maharajah Kumar, and a brother, the Rao Sahib of Gidhour, who has the respect of the people and relieves the Maharajah of many of the aiduous duties incident to his high position

Mr MAHONED ESSA, Zemindar of Billiaghatta in Bengil, eldest son of the late Mr Mahomed Mohsen Born in the year 1883 and educated at the Ripon College, Calcutt i, he is proficient in the English Persian, Uidu and Bengali lan guages Mr Mahomed Essais the de scendant of an ancient and honourable family, and his ancestors were the first Mahomed in Jemindars in Calcutta His maternal grandfather was a m in of note, who traced his descent from the Prophet Mahomed. He is at present occupied in managing the estates which he has inherited from his father, and is known as the future Matvali of the large mosque and madrassah at Ballinghatta which adjoins the big dwelling house built by his grandmother Sowlatunnessa Bibi This lidy also built i madrissah at Mecci in Arabia which is named after her and is known as the madrassalı-ı-Sowlati i and also a mosque and madrassah at Bhislia in the district of the 24-Pergamas Bengal Mr Milhomed Essa is married to the second daughter of Shams ul ulama Moulvie Ahmed

Babu SAFIS CHANDRA MAL-LIK a rich Zemindar of Colcutta was born on the 16th August 1867



Babu SATIS CHANDRA MAILIK

and belongs to the well-known Kulin Kayastha Basu Mallik family Prosad Singh, Bahadur, KCIE, of Gidhour, is the son of the late Maharajah Shiva Prosad Singh and the twenty-second of his house in descent from its founder. He was brought up under the experienced eye of his grandfather, the great Maharajah Sir Jaimongul Singh, and had the benefit of supervision by so sincere and worthy a man as his father Maharajah Shiva Prosad. He was carefully trained by competent teachers in Sanskrit and Persian, and early acquired a thorough knowledge of English. Attention

was also paid to his religious training, and respect for the traditions of his illustrious ancestry was instilled 11to him Trained in this manner the Miharajah is orthodox and staunch to the beliefs and customs of his father as well as possessing the attrinments of an erlightened nobleman Is necessary for a rulei of large estates the Walarajah was educated in the intricacies of zemindari management, and is a good man of business Great attention was also paid to the physicil side of his education, and he was encouraged to devote himself to every kind of sport, and has grown up a fine horseman, a good shot and an expert swordsman a worthy descendant of the Chandravanshi the clan of Rajputs who were perhaps the most worthy and formidable opponents of the last Hindu Kings of Delhi Maharajah Raveneshwar

Prosad Singh was at the death of his father installed on the "gidi" on Friday, the 18th September 1885 and le has not disappointed the great expectations formed of him from his birth and training The ceremony was performed according to the Rapput custon with Hindu rites For the next year the Maharajah devoted himself to studying the condition of the estate that had come into his charge and in the following ver he accepted his first public uppointment as a member of the District Board Committee of

Monghyr In March of the same year the house of Gidhour was connected with that of Deera in the Upper Provinces by the marriage of the Maharajah The connection was a happy one, for the Rajas of Deera were as distinguished for loyalty as the house of Gidhour, and rendered the British good service during the time of the Mutiny in 1857, sheltering refugees and giving them safe escort to Benares On the 18th August 1886, Sir Rivers Thompson, I ieutenant-Governor of Bengal performed the ceremony of



THE MAHAPAJ KUMAR OF CIDHOLR

the formal recognition by Govern ment of Raveneshwar Prosad Singh's succession to the hereditary title of Maharajah Bahadur at Bhagulpore On this occasion the Maharajah Bahadur received his "Khillut" and as a consequence exemption from personal attendance at Civil Courts was also granted to him by the Government In 1887, the Maharajah was appointed a member of the Central Committee of the Imperial Institute and also a member of the Local Board of Jamui The Maharajah distin-

guished himself by zeal and assiduity in attending to the duties of these posts, and attracted the attention of Lord Dufferin then Viceroy and Governor General of India. In passing Gidhour His Excellency caused his special train to stop at the station and was pleased to accept an address, to which he replied in kindly terms and asked that the Sirdar's present should be presented to him. The Maharajah Bahadur at this period was a young man of but twenty years of age, but had already given

marked proof of his ability to govern his estates and conduct both public and private affairs In January 1890, the affairs of Gidhour under the Waharajah being much to the satisfaction of the authorities he was invested with the powers of a Magistrate to try cases singly In the same year a son and heir was born to the Maharajah amid general rejoicing at Gidhour It was about this time that the Maharajah, having firmly established himself in the affections of his people used his influence to introduce social and religious reforms, and turned his attention to improve and beautify the town of Gidhour What had been a merc collection of huts collected round the walls of the fort and palace of the Waharajah was gradually converted into a trim little town containing a brick built bazar a neatly built school a charitable dispensary and a guest house A new palace named the "Suknivas,"

was also built by the Maharajah and the palace vas overhauled and refitted in the latest English style with modern furniture, gas, and up-to-date items of luvury. In 1893 the Government gave proof of the confidence which the Maharajah's ability had obtained for him, and nominated him to a seat in the Bengal Legislative Council He took his seat on the 25th February 1893. In 1894, on the occasion of the amendment of the Bengal Municipal Vet of 1884. Bill, he supported the Government

It was at his garden-house, the famous "Seven Tanks Villa," on the Dum-Dum Road, that His lite Royal Highness the Duke of I dinburgh, the second son of Her late Majesty the Queen, was en-ertuned by the dite of Bengal, when he visited India in 1869 Nemai Charan Mullick, the second son of Nayanchand Mullick, was the great-grandfather of Mr Mullick Yemai Charan was born in 1736 in Calcutta Besides being one of the richest men of his time, he was an accomplished scholar, well versed in Sanskrit, Bengali, English Persian and Urdu He was a great banker and had no less than thirty guddies (branch offices) various parts of Bengal Nemai Charan was well known as the builder-up of a great fortune Though he inherited only about forty lakhs of rupecs from his father. he left at the time of his death in November, 1807 upwards of four crores of rupees in cash and Government securities besides valuable jewellery import int Calcutta properties big zemindaries, extensive opum and indigo concerns, and large sums due from individuals on banking business Nemai Charan mide his money chiefly by trade both maritime ind inland, and by Shat-challisa I oan '' during the Mysore wars, when for every sixty rupers lent, the Government granted a note for Rs 100 Nemai Charan's charity knew no bounds He built temples and dharamsalas it Brindabin, Ballaspore Kanchrapara and other places. He went so far as to liberate all cavil prisoners who were sent to jail for debts. He also left about five lakhs of rupees for the preservation and maintenance of the religious and charatable institutions founded by hum This money has formed into a trust whereof Mr Mull ck is one of the trustees Nem u Charan left eight sons His second son Ram Ratan, managed the joint estate after the death of his father and enjoyed the entire monopoly of the salt tride on behalf of the Hon'ble List India Company He had ulso a large business in opium. He was extravagant in his charities and fond of show and estentation It was Nemai Charan's fifth son,

Ram Mohan, who constructed the bathing ghat near the Hooghly Bridge, called Mullick's Ghat Mr Mullick's grandfather Swarup Chandra, was the seventh son of Nemai Charan. He was a good scholar and a great merchant with an extensive banking business. He was also a zemindar and landholder. Such also was Mr Mullick's father, Nityanunda. Both of these gentlemen were well known in Calcutta for their benevolence and charitable dispositions.

charitable dispositions Mr Mullick is a promising scion of this ancient and honourable family He was born in 1881, but lost his father at an early Thereupon the Administraage tor-General of Bengal took charge of the minor children as well as the vast estate left by Mi Mullick's father, which he ad-ministered t.II Mr Mullick attained his majority Mr Mullick received his education first at the Metropolitan Institution and then at the Presidency College Calcutta He is a well-educated energetic young man, having a good knowledge of law, practical engineering and surveying He is a first class amateur photographer, a fine rider, an excellent cyclist, a good allround athlete, indulging in all kinds of manly sports He also possesses a good knowledge of music As a distinguished and influential member of Calcutta society and a gentleman of culture and wealth, Mr Mullick is connected with many of the important public associations. He is a careful and judicious administrator of his vast estate which he has considerably improved The Deputy Sanitary Commissioner of Bengil, in one of his inspection reports, spoke very highly of one of Mr Mullick's properties describing it as well worth being drawn attention to as a rare instance of public sprit on the part of a landed proprietor it the early age of twenty-two, Mr Mullick was elected Chairman of the Municipal Corporation of Manicktala, in which district he owns vast properties in succession to the old and veteran Churman, Mr R D Mehta, CIL Mr Mullick's address is 21. Mukthram Babu's Street Calcutta

The MULLICK FAMILY of Chorebagan, Calcutta, is one of the leading Bengali families, whose title dates from the days of the Mogul Empire in India, having been bestowed by the Mogul Government on Jadab Sil, who was head of the family in the thirteenth generation Though known by the title "Mullick" the family still retain the name of Sil, although it is used only in religious and matrimonial ceremonies The Mullicks are members of the "Subarnabanik" caste of Hindus, and the traditional business is that of Bankers and Merchants The present position held by the family has been secured by their great wealth, and their enterprise and public spirited liberality since the beginning of authentic history They have always been recognised as "Dalapoties" or head of many families belonging to their caste

The most noted head of the fa-

mily in recent times was Raja Rajendra Mullick Bahadur, son of Nilmoney Mullick, who died in 1821 Nilmoney Mullick was noted for his widespread charities and was a leading man of his time He, it was who built the Thakurbari at Chorebagan where, up to the present day the poor and needy find reliet, irrespective of caste or creed At the time of his death in 1821, his son afterwards Raja Rajendra Mullick Bahadur, was but three years of age, and his mother the widow of Nilmoney Mullick with her infant son went to live at the residence attached to the Thakurbarı at Chorebagan At this time a suit for the partition of the estate was instituted between the widow and Babu Boistob Das Mullick Meanwhile the Supreme Court of that day had appointed Mr James Weir Hogg (afterwards Sir James Weir Hogg Bart) as guardian to the young Rajendra He was educated at the Hindu College where he recented a good grounding in both English and Bengali For Natural History he acquired a great taste and to his artistic sense is due the fine collection of pictures, statues, and other works of art, which grace the halls of the family mansion at Chorebagan, a description of which will be given further on

On attaining his majority and coming into full possession of his

of Pataldanga in the town of Calcutta He is the only son of the late Babu Sree Gopal Mallik, who made a permanent endowment of Rs 5,000 annually for a fellowship styled "Sree Gopal Basu Mallik Fellowship" for the encouragement of Vedanta and Sanskrit learning

under the management of the University of Calcutta Babu Satis Chandra has a very charitable disposition and besides occasional donations, he has founded an Institution named after his beloved deceased son "The Jyotish Chunder Basu Mallik Charity Fund" to aid poor students in prosecuting their studies and for the relief of poor widows, orphans and invalids A fixed sum of Rs 300 is spent monthly for this purpose He has excavated a tank at Mirpur in the District of Nadia for the supply of good drinking water to the inhabitants at a cost of about Rs 5,000 He has also made a donation of Rs 12,000 to the National Council of Education Bengal, to be spent in purchasing the necessary instruments and appliances for the improvement of the Laboratories and Workshops of the Bengal National college and school, one of the laboratories of which is to be named after his father the late Babu Sree Gopal Mallık

Mr ANATH NATH MULI ICK, the well-known Zemindar and millionaire of Calcutta, comes of one of the most aristocratic families of Bengal esteemed for its antiquity respectability and importance. The history of this noble family can be traced to so early a

time as the tenth century of the Christian era, when its ancestors, who were great merchants and bankers, came from Oudh to the Court of King Adi Sur of Bengal, who granted them a jagir, named Subarnagram, at the confluence of the Brahmaputra and the Meghna, where they settled They soon dis-

tinguished themselves as a mercantile aristocracy and Subarnagram greatly flourished in trade and commerce Towards the end of the eleventh century, they incurred the displeasure of the then King of Gour, left Subarnagram and settled in Karjana, a city on the then navi-



MI A N MULLICK

gable river Khargeswari, near to Burdwan In course of time Karjana became depopulated and about the year 1518, the family removed to Saptagram on the river Saraswati Here they extended their business connections and prospered until the end of the seventeenth century, when the river Saraswati becoming silted up and unfit for trade, a branch of the family removed to Calcutta, which had just begun to flourish under the English traders, and settled at Burrabazar From that time forward the family has held a foremost position in Calcutta society

Among the distinguished members of Mr Mullick's family the following may

be mentioned -

Shome Bhadra De, one of his earliest ancestors, lived in the reign of King Ballal Sen of Bengal He was a prominent merchant who removed from Subarnagram to Karjana about the end of the eleventh century His descendant, Banamali, flourished in the reign of Akbar the Great, Emperor of Delhi and obtained the title of "Mullick" from the Mahomedan Government He was a well-known merchant and banker who carried on an extensive business in Bengal and Upper India He had big zemindaries in the Nadia district, where he excavated a canal which is still known by the name of Mullick's canal He was greatly dist nguished for his charities and died in 1608 His grandson, Krishnadass, was a man of great benevolence who built a temple at Ballavpore on the bank of the river Hooghly and an almshouse at Tribeni Hariram, a great grandson of Krishnadass, was the agent of the Hon'ble East India Company at Dacca Nayan-chand, another great-grandson of Krishnadass, was a prominent Zemindar and a flourishing merchant and banker He constructed a metalled road at Burrabazar in Calcutta, which he made

over to the Hon'ble East India Company for public use He built temples and dharamsalas at Benares, Serampore, Mahesh and other places The great-grandson of Nayanchand by his eldest son was Shyama Charan, popularly known as the Indian Rothschild He was a man of great influence and importance

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ng Near the Asiatic Society Portal returned their warnest is a him for the liberal i as vic le rad responded to their

His eldest son Kumar Denendra Mulrck to succeeded him as born on the 15th August 1835 and was ed icated at the Oriental Semin-

ncient in English and Sanskiii and nod an inherited taste ior art 45 a rainter and sculptor he acquired considerable skill and the oil painting of the late Queen-E npress which now langs in the tamily mans on is one of his best pictures and is much admired One of ms last works a group of horses was exhibited at the Calcutta Exhibition and gained universal Traise He gave conattention siderable to public I'e was a Justice or the Peace ard Honorari Presidenci Magistrate a nominated Vanicipal Commissioner a Vember of the Council of

literally to the poor and to every deserving onice. An only son Kumar Nogendro Mull cl survives

The family not consists of three grand-ons of the Rajar Ravendra Mullick range, the Kumar No-gendro Wallick son on the late Kumar Debendra Malicel Kumar Bro enaro Mullich son of the late Kumar Grindra Muli CL and Kumar Garendro Vallics son of the late Kumar Surerdro Mullick all of them are teeping to the charities of the late Rajah Rajendro Mullick Bahadur Evert day about I 000 poor are ted without distinction of caste of creed. All the members of the family take considerable interest in arr and are mainly concerred in adding to the magnircent collection of p ctures and statues that grace the larnin mansion which was started by their the late Rajan grandiather the late Rajan Rajendra Tre jamus marson at Chorebagan 1-21 eritable art treasure house. Its r agrificent marble hall the material or which has been brought from every fart of the vorld is a temathable specimen



Kim ir Brojendeo Villick

call and trusted that he would continue to take the same lively interest in this branch of science In 1860 he was appointed a Trustee of the Indian Wu-eum and in 1875 the Trustees of the Museum appointed him a Vember of the Finance and Library Committee He wa- largely instrumental in establi-hing the Zoological Gardens at Mipore to which he liberally contributed with presents of valuable animals and in recognition of his services the first house built in tie gardens was named after him

THE MILLICA HOUSE Rajah Rajendra Muilick vas married to the daughter of Baha Rooplal Mullick the sister of Babu Sham Charan Mullick lace property thousand as the Seven Tanks and nad issue six sons Debendra Mobendra Girindra Surendra Jogendra and Momindra Muliich Oi these Moherdra Girinara Surcrara and Jogendra did not survive their lather The Rajan himself died on the Inth April 1887 after a long and usual CATELT

the Asiatic Society of Bengal Vember of the Natural History Committee of the same Society representative of the Asiatic Society for the object of consulting with the Government for the normation of Zoological Gardens juror for the award of prizes or the Agricultural Exhinition held at Alipore Vice-President of the S P C A and Member of the Committee of the British India Association the District Charitable Society the Ciclone and Fam-Funds Reliu1 and other institutions of public benefit. He ded in the year 1801 aiter a u-eiul inroughout which he follored the example or me tatter and grandfatter and gave



Kim - CANENDOO MILLIUR

estate, Rajendra Mullick carried on the charitable work initiated by his father in the most liberal manner. The poor and the helpless were never sent away unrelieved and he fulfilled his religious obligations in the orthodox way. It was his daily practice to offer his prayers at the Thakurbari before breaking his fast after which he distributed cooked food to five or six hundred needy people of all creeds and denominations, no distinction in these respects being made. During the famine of 1865-

1866 when much distress prevailed throughout Bengal from five to six thousand starving people had their daily necessities attended to in the courtyards of the Chorebagan mansion It was this service to suffering humanity that attracted the notice of Government in the first instance and in 1867 his liberality was rewarded by the bestowal of the title of Rai Bahadur The ability and generosity with which Rajendra Mullick carried out his work in connection with famine were fully recognised in a letter from Mr S Hogg the Commissioner of Police to the Government of Bengal dealing with the famine, and furnished at the request of the Government In this report it was pointed out that though leading Bengali gentlemen came forward very readily with similar measures for private famine relief, to Rajendra

Mullick was due the credit of having shown the way Further, he assisted the authorities in dealing with the famine-stricken people who crowded in Calcutta from the districts, causing apprehension of the outbreak of an epidemic. He also generously came forward with much needed accommodation for hospital work among the paupers, placing at the disposal of the Famine Relief Committee several valuable properties at Colootollah newly built and yielding a monthly

rental of Rs I 600 He also gave the house and grounds subsequently known as the Tivoli Garden, for the same purpose I his latter was utilised as a Foundling Asylum, and to this institution Rajendra Mullick contributed the sum of Rs Ioo per mensem in perpetuity

This record of services was passed on by the Government of Bengal to the Government of India with the remark that the Lieutenant-Governor has received Mr Hogg's account of this eminent Native gentleman's voluntary evertions



Kumu Nocendro Muttick

and sacrifices in the cause of humanity with the liveliest satisfaction, and feeling confident that such conduct will be highly appreciated by His Excellency in Council desires me to recommend Babu Raja Rajendra Mullick for some special mark of His Excellency's favour as a suitable acknowledgment of his "enlightened and munificent charity". The outcome of this was the title of "Rai Bahadur" conferred in 1867 "in recognition of the munificence he has displayed

in the relief of the sufferers from the late famine" Further recognition of his services was made ten vears later when I ord Lytton, then Vicerov of India honoured him with the title of Raja Bahadur With the sanad conferring this honour was presented a fine diamond ring bearing the inscription—"Presented to Rai Rajendra Mullick Bahadur with the title of Raja Bahadur as a personal distinction, in recognition of his high character and benevolence"

Raja Rajendra's studies in Na-

tural History led him to pay attention to Zoology and he was noted for his collection of birds and beasts In making this collection he spared neither pains nor expense in bringing together specimens from all parts of the world Before the Zoological Gardens at Alipore were in existence he had established a menagerie the first of its kind in Calcutta He was in correspondence with all the leading Zoological Societies in the world and frequently sent specimens to the various Zoological collections in Europe and he in return received from these Societies many varieties of birds and beasts in exchange together with medals diplomas and so forth He was the first to introduce the Himalayan opheasant into England which pro cured for him a medal from the Zoological Society In 1863, he was elected an Honorary

Member of the Acclimatisation Society of Victoria in recognition of the many services rendered by him in the cause of acclimatisation, and in the same year he was appointed a corresponding Member of the Zoological Society of London by certificate dated May 21st of that year In 1866, he was requested by the President of the Royal Zoological Society of Antwerp to maintain his connection with that society by the exchange of birds and animals and in the

Catherine", by Rubens is another striking painting, 33^2 Marriage of St which was presented by Lord Northbrook to the Government School of Art and has since come into the possession of its present owners Mullich, who was himself an artist Mullick, who was himself an around the frequency of a of repute was the recipient of a horizontal picture entitled the beautiful picture entitled beautiful picture of which now beautiful picture of the frequency of the horizontal picture. The Maradorns the collection of the horizontal picture and the horizontal picture. tyrdom of St Sebastian, after Guido Diana and Endymon, adorns the collection

by Le Jenne or Le Suir, "Marriage of St Catherine," by Lorenzo DiSan Severeno, a painter of the Umbrian school in the 15th century school in the 15th consister 'The Lord's Supper', after 'The Lord's Supper', Mater Leonarde Vincent, by Tripolo Rattista 'Mater Giovanni Battista Raphael, Olorosa, after Raphael, Charge of the 10th (Queen's Own) Lancers, at the Battle of Ahwal, January 28th 1840-these and hundreds of other famous pictures are to be seen in the tures are to be seen in the late Rajah Rajendro Kumar lick's Art Gallery the pres ent head of the family has performed a praiseworthy task in getting the collection in order and printing catalogue of the same The house with its unique art-collection which has cost an immense fortune its an minion fittings in the shape of rare chandeliers, furniture etc and its menagerie is one of the notable sights of Calcutta architectural beauty of this

palatial residence is in itself worth the study of an artist The European visitors to Calcutta, who return home without seeing the late Rayth Rajendro Yullick's Priace, have missed one of the greatest sights of the metropolis GOVIND

I LLL ROY of Rungpur Born at I LL ROY of Rungpur Born at Calcutta in the year 1854, being the second son of Babu Ishwar the second son of Babu of Das, a leading merchant of Calcutta He was son by adoption to Babu Giridhari Lall Roy, and to Babu Giridhari Lall Roy, and the three became nossessed of the thus became possessed of Innly emigrated to Bengal in

the reign of the Emperor Feroke Shah, to avoid the royal edict published after the death of the Sikh Guru Banda, condemning to death all who professed the rel gion of Nanak They in common with several other Kshattriya families avoided the persecution by leaving the decision by leaving the decision. the persecution by leaving the disthe persecution by reaving the district One of them, Manna Lall Roy, founded the family fortunes at Mahigunge, where the civil station of Rungpur was then located, where he established himself as a Jeweller, which gave the name Tajhat to the quarter he lived in The family quarter he lived in

Late Mihirip Govind Lill Ros

cons derable and the big acqu red day was founded day was founded the Dresent day was founded the present day was founded to be present day and the present day was founded to be present day and the present day was founded to be present day and the present day was founded to be present day was founded to be present day and the present day was founded to be present day and the present day was founded to be present day was founded day which was founded day gradually One Ajab Lall Roy, who, during the aforesaid moration certified in the Control Dogration, settled in the Sonthal Parganas, had a son Ratan Lall who rendered material help to the Brit sh Government in bringing the Savage Sonthal tribes into law and Sonthal tribes into law Government with the settlement of Taluk Manasachandi in Naya Dumka The two Roy families were united by the marriage of Ratan Lall's

Prankumari, Dhanapat Roy, grandson of Manna granddaughter, Lall Dhanapat Roy's son Ram Sunder Rai having deceased leaving a minor son, Upendra Lall, his maternal uncle Babu Giridhari Lall maternal uncle Babu Giridhari All Ray yas appointed guardian of the Roy was appointed guardian of the minor and executor of the will Girdhari Babu at that time held the post of Munsiff and occupied a very responsible position Upendro I all down dra Lall dying unmarried in 1860, the Government cla med the estates as ultimate lord tion ensued which was carried to the Privy Council where in

1805, their Lordships gave their decision in favour of Babu Giridhari Lall Roy on the ground that the family was governed by Mitakshara was governed by Mitaksnara
Law and consequently legal
dhari Babu was the
reversionary heir Maluchi
Chandra Roy of the Maluchi
Roy fam ly, Superintendent
of the estate at the time, was of the estate at the time, was instrumental, in a disinterested manner, in fighting the case up to the Privy Council in order to save the estate from the Government Babu Gridhari Lall Roy having no living issue, adopted the late Maharaja Govind Lall Be ng stricken in years the responsibility of managing the great property was too heavy a task for Gridhari heavy was now a task for Gridhari heavy a t Babu, who gave his adopted son a practical English and Bengali education with a view to his early installation into the management of the estates Gov nd Lall proved quick, and at an and sagacious, and at an himself early the poettor Giridhari Lill died in the year 1879

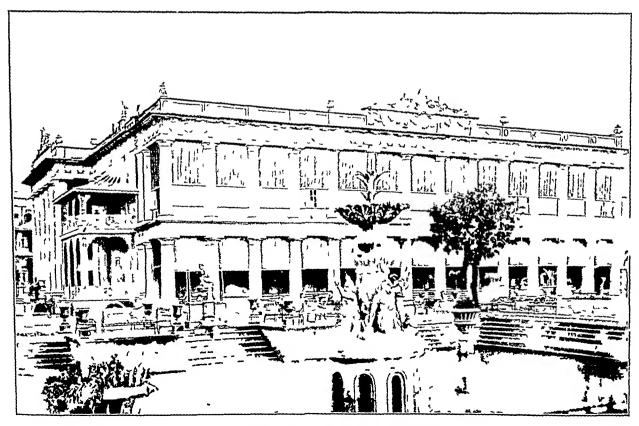
The young Govind Lall thus succeeded to the estates at the time when he had just entered the prime of life He shortly showed evidences of possessing a sterling disconnected him in position which elevated him in position which elevated himself public esteem Possessing a sympublic esteem Possessing a sympublic esteem Possessing a himself pathetic nature he set himself works which made to char table works which made his memory an enduring one His his memory an enduring one His charities were carried out on 3 vast scale, nor were they confined to his own district or neighbourhood, but were extended all over

Oriental Architecture It is surrounded by a high railing, and the grounds are embellished with statues and adorned with avianes of rare birds The interior is decorated in lavish style with gilded ceilings and the floors are of inlaid Bronze and marble stamarble tues from France and Italy adorn the corridors and recesses late Rajah Rajendra Mullick spent a fortune in furnishing this house, and making an absolutely unique collection of pictures and statues by eminent artists of every country Like his distinguished father the late Kumar Debendra Mullick was also a lover of art, and he too made it the chief object of his life to enrich the Art Gallery of the family mansion This Art Gallery is without exaggeration one of the best ın India The unique art-collection has lately been arranged in proper order on the occasion of the marriage of a son of Kumar Nogendro Mullick, grandson of the late Rajah Rajendro Mullick and

the son of the late Kumar Debendro As an example of the Mullick artistic taste that has been a distinguishing feature of the family for three generations, a few of the objects of art that have been gathered together may be mentioned here In the compound to the north are to be found a number of marble statues executed by eminent artists The effect of the scene is heightened by a marble fountain representing four figures Spring Summer Autumn and Win-The first thing that meets the eve on the west lawn is a life-sized marble statue of Michael Angelo, a statue of Venus at the bath and a full-sized bronze figure of an English con which was presented by Sir Elijah Impey, Chief Justice of the old Supreme Court of Bengal On the grand landing are to be found statues of Discobolus Min-Bacchus Demosthenes of Una on the Lion Erena on the Tiger, etc The collection in the north marble hall includes a beau-

tiful bust of Christ with the crown of thorns and busts of Napoleon and Wellington Eastward statues of Psyche Venus and Mercury are the most striking objects, and there is a beautiful bust of the Viigin Mary In a red marblewalled chamber is a colossal statue of Her late Majesty the Oueen-Empress Victoria in her coronation The courty ard contains robes four beautiful statues representing the four Continents another statue worthy of mention is that of Apollo Belvedere after the one in the Vatican Palace at Rome This is supposed to be one of the noblest representations extant of the human form

Among the oil paintings one which attracts no little attention is that of the Flight into Egypt by Pante Jacopoda called Bassano Burganese (Venetian, 1510-1592) "The Descent from the Cross" is another beautiful Biblical picture, copied from the famous original in the Antwerp Cathedral "The



THE MULLICKS' FAMILY MANSION AT CHOREBAGAN

is greatly the result of his uncle I ala Shib Narayan Kapur's excellent formative influence and affectionate care of him in his youth A tutor was also provided for the young Maharu Kumar in the person of Mr E Candler, BA, with whom the Maharaj Kumar made the tour of Upper India In this post Mr Candler was succeeded by Mr Mackenzie, who in his turn was relieved by Mr A Cormack, MA, Bar-at-Law, of the Indian Educational Service These tutors one and all expressed a high opinion of the Maharaj Kumar's intelligence ability and character No pains were spared to fit the Maharaj Kumai for the important position he was to occupy, and on his part he applied himself most assiduously to all those branches of knowledge in which it was necessary for him to be proficient. He paid great attention to the study of the Law in all its important branches Having fitted himself in legal studies, he was given a practical education in zemindari practice and management with Mr C H Pope, Maniger of the Rungpur Estate, under the Court of Wards He went on tour through his estates and took the greatest interest in making himself acquainted with all details of the management, a task which he carned out with great thoroughness and which is standing him in good stead now that he has taken the reins of management into his own hands While going through this severe but necessary training to render him equal to the task of the great landed proprietor which he was to become, the Maharai Kumar did not neglect those exercises and recreations which are the graceful accomplishments of the leisured classes From his boyhood he excelled in all outdoor sports and pastimes He learned to be an excellent tennis player and also excels at billiards cricket and football. He is a keen shikari and a good shot In horsemanship he is extremely proficient and also in eveling, and has taken up motoring with great interest and has made it one of his leading recreations is well for business as for pleasure. His taste for music is keen and he has made himself an expert photographer The Ma

haraj Kumar attained his majorits in lugust 1 1908, and the management of his uscates was then made over to him by the Court of Wards this event was celchrated by a formal dinner given by him, it which many of his European friends official and non-official, were present. On this occasion Mr Vas, the Collector of Rungpur and Mr Emerson, a former Collector of the same district, spoke in the highest terms of the sterling qualities of the Mahara] Kumar and Mr Henniker, Commissioner of the Pivision, congratulated him warmly on his accession his estates The Maharai Kumar, as might be expected of his ancestry and truining, has shown himself a considerate and generous landlord, and like his father, loyal in sentiment and action. He is a man of action rather than of speech and strughtforward in all his dealings During the short time he has held the management of the Rungpur estates, he has shown great decision of character and business tact which combined with a generous liberality of heart has endeared him to his friends and tenants His hand has ever been oven to the call of distress, and he has contributed generously to famine relief and all popular charitable objects He was married in 1906 to Radharani Debi, eldest daughter of Babu Kunja Behary Barman of Bankipui, who by birth, educa tion and training is well fitted to be the consort of the Maharaj Kumar

The Honourable Ray SITA NATH ROY Bahadur is the youngest of three brothers, the others being Rajah Sree Nath Roy and Babu Janoki Nath Roy, who are the pro prietors of the well-known banking firm of Rajah Sree Nath Roy and Brothers All the brothers have attained considerable distinction in life Sita Nath was born at Bhagyakul in the District of Dacca on the 30th Falgun in the Indian year 1260 and received his early education at the Dacca Collegiate School and subsequently at the Hindoo School, Calcutta, whence he passed the Entrance Examination He pursued his studies at the Presidency College where he graduated in Arts and Law He was enrolled a Vakil of

the High Court of Calcutta but he did not take up prietice in carnest The brothers come of the Coondoo family who are well known and highly respected both in Eastern and Western Bengal They are better known in Western Bengal as the Roys of Bhagyakul Coendoo family is now divided into four branches Gunga Prasad Roy, the grandfather of the present Roy Brothers, laid the foundation of the present great wealth of the family, which was considerably augmented by the strenuous] excrtions and enterprise of his sons, notably of the illustrious Guru Prosad Roy and Premchand Roy,



The Hon'ble Rat SITA NATH ROA BAHADUR

the uncle and father respectively of the brothers The family is now one of the richest in the Eastern Province of Bengal They use their wealth liberally Their contributions to various works of public utility and charity during the past 40 years amount to about 6 to 7 lakhs of supees they have been especially forward in relieving sufferers in the constantly recurring famines In addition to these large charities the brothers recently, in the name of Raja Sree Nath Roy, made a donation of Rs 30,000 in establishing an Eye Infirmary at Dacca, and contributed Rs 15,000 to the Lady Dufferin Zenana

India, and given without distinction of caste or creed In his native town thousands of people were yearly carried off or incapacitated by the ravages of malaria To better matters the late Maharaja made a princely gft of 3,500 bighas of land valued at Rs 60,000, which made possible the excavation of K D Ghose's Canal, thus giving the town a proper drainage system and checking the mortality Facilities for obtaining proper change of air being few for the middle and poorer classes, the

Maharaja contributed Rs 1,10,000 for the construction of the Lowis Jubilee Sanitarium at Darjeeling, which has proved a blessing to thousands of suffering people He contributed Rs 100 per month to the Rungpur Bailey Govinda Lall Technical Institute, which thus owes its exis tence to his munificence The building for the Training School was the Maharaja's gift and the Talhat High English School was also established and maintained by him Another monument of the late Maharaja's liberality was the Cotton Institution of Calcutta scribed Rs 10,000 towards the establishment of the Marcus Square Recreation Ground and his donations to famine relief and kindred works were constant and liberal His charitable donations in all totalled some four and-ahalf lakhs of rupees, be-

sides subscriptions to various charitable, religious, medical and technical institutions, of some Rs 60,000 per annum His public spirit and private virtues earned for him the esteem of all both European and Indian, with whom he came in contact, and Government recognised his public services by bestowing on him honour after honour He was created Rajah in the year 1888 and Rajah Bahadur in 1892 The high distinction of Maharaja was conferred upon him in 1896 His death which occurred in 1897 at the early age of 43 was due

to a lamentable accident in the great earthquake of that year, when he was wounded in emerging from his was wantled palace. The injury dismantled palace death was a proved fatal and his death was a cause of mourning to thousands His popularity and far-reaching influence may be gauged from the fact that replies to telegraphic messages enquiring after his welfare cost Rs 750 In appearance the late Maharaja was a typical Kshattriya He was fond of all manly sports His marriage with Saraswati Debi, which took place in 1871 (29th



Mahu y Kumak Gopal Lall Roy

January), had issue in the present Maharaj Kumari Hemangini Debi, wife of Babu Uma Prosad Ray of Bhowanipur, The late Maharaja's Chowdhury second wife, Sarat Sundari Debi, outlived him and continued his dying in August 1905 By her he had issue Maharaj Kumar Gopal Lall Roy, Rajkumari Annapurna Debi, married to Babu Hari Chand Malhatra, of the Punjab, and Mrinalini Debi, married to Babu Sailendra Nath Mahata, of Berhampur

Maharaj Kumar GOPAL LALL ROY, of Rungpur, son of the late Maharaja Govind Lall Roy Born in August 1887, at Calcutta, and educated at the Hare School He had the misfortune to lose his father when only ten years of age At first the management of his ancestral estates devolved upon his mother the late Maharani Sarat Sundarı Debi and her father Babu Ram Krishna Mahata The Court of Wards, however, took over the management of the estates in 1903, six years after the decease of the

late Maharaja, and the young Maharaj Kumar was thereupon sent to the Rajkumar College at Raipur in the Central Provinces Here he showed signs of the sterling stock from which he came and by his assiduity in his studies and frank and generous bearing he obtained the love and respect of his fellow students and the regard of his Professors, by whom he was held in great esteem, particularly by the Principal Mr Oswell, who always spoke highly of him and prophesied a useful career for the Maharaj Kumar His collegiate career was remarkably successful and he carried off several prizes and excellent certificates from the governing body of the College, upon which he received the congratulations of the Honourable Mr Marindin, at that time Commissioner of the Rajshahai division, and the Hon Mr Streatfield, then Collector of

Rungpur His mother Maharani Sarat Sundari Debi dying in August of the year 1905, the Maharaj Kumar was placed under the guardianship of his uncle I ala Shib Narayan Kapur, whose services were specially lent by the Government of the Punjab on deputation, he being considered the most fit of all the Maharaj Kumar's relations for the charge, which he carried out to the satisfaction of the Government and all concerned The Mahiral Kumai's sterling character and high reputation to-day

or Pure. His great services in this and other matters did not escape the ittention of the British authorities. During the administration of the Marquis of Histings he was honoured with the title of Raja Bahadur and as a further mark of honour a gold medal and sword of rare workmanship were bestowed upon him Raja Sukhmoy was held in equal esteem in other high quarters of the day had previously received the title of Raja Bahadui from the reign ing Emperor of Delhi Shah Allum The most distinguished honour of maintaining a force of five thousand cavalry in his employ was also accorded to Raja Sukhmoy by Shah Allum His fame had spread beyond the confines of India and had attracted the attention of the Shah of Persia That monarch was also pleased to do him honour and through the Board of Council sent to Raja Sukhmov a Perwanah conferring upon him the same title of Raja Bahadur previously granted to him by the British and Mogul authorities of India to which he thus acquired a triple title Full of years and honour Raja Sukhmov Roy Bahadur died leaving behind him five sons Raja Ram Chandra Roy Bahadur, Raja Krishna Bahadur, Raja Bridge Nath Roy Bahadur, Raja Shiva Chandra Roy Bahadur and Raja Nrishingha Chandra Roy Bahadur Of these the eldest Raja Ram Chandra Roy Bahadur died leaving one son only, Raja Rajnarayan Roy Bahadur who died without issue Raja Krishna Chandra Roy Bahadur the second son, also died childless leaving the dignity of the family to be upheld by Raja Sukhmoy's third son, Raja Baidya Nath Roy Bahadur, who proved a worthy descendant of his great ancestors Raja Baidya Nath possessed in a remarkable degree the virtues of public spirit, generosity and charity, which had raised the family to eminence lovalty was unquestioned greatly acceptable to the authorities, who acknowledge his great services to the Government and to the country He was invested with the title of Raja Bahadur by I ord Amherst who also accorded him the privilege of wearing the gold medal

and sword of honour presented to his fither Raji Sukhmov Rov Bahadur on all public occasions The many great voils of public utility due to the generosity of Raja Baidy i Nath are too numerous to mention. He was open-handed on all occasions which required the services of the rich and well placed. His gifts to the public works of the country left a mark which continues to this day. He gave a handsome donation of Ks 50 000 to the Hindu College which considerably increased the usefulness of that meritorious institution His contribution towards the crection of the Cossipore Gun Foundry Ghat and the road leading from it to Dum-Dum amounted to Rs 40 000. To the Native Hospitals he gave Rs 30,000 and in aid of the funds for Native education the scheme promoted by the late well-known Miss Wilson his gifts imounted to Rs 20 000 For the purpose of the construction of the Karamanasha Bridge he contributed Rs 8,000, and he made a notable gift of Rs 6 000 to the funds of the Royal Zoological Society of London Raja Baidyn Nath had already qualified himself for membership of this great scientific association, by his munificent contributions to zoological science in the maintenance of a large menagerie to which the most liberal access was afforded to all interested persons He accordingly received a highly complimentary note from the Most Noble the Marquis of Jansdowne accompanied by the diploma of the London Joological Society In this note were associated the Vice-Presidents of the Society, His Grace the Duke of Somerset the Right Honourables Lord Auckland Earl of Darnley Lord Stanley, M P Earl of Egremont and Charles Baring Wall Esq M P In this note the services to the public of the Raja Bahadur, including his donations to public causes, were set forth in flattering terms. The Zoological Society recognised with pleasure Raja Baidya Nath's desire to be associated with the scientific institutions of Great Britain, and admitted him and his son Kumar Roy Rajkissen to be original members of the Zoological Society of London At his death

Rija Budya Nith Roy Bahadur left two sons Kumar Radissen Roy Bahadar and Kumar Kah Kissen Roy Bahadur - The continnance of the family traditions fell to Kumir Roy Bahadur Kali Kissen, the younger son who gave early indications that the qualities that had led the family to greatness had descended to him. The first Inglo-Vernacular Grant-in aid School at Parkpara was established by Kumar Kalı Kissen who supported it for veirs. For the building of the North Suburban Hospitil it Cossipore he mide i donation of Rs 5,000 and further subscribed a hundred rupees per month towards its upkeep His virtues and public qualities made Kumar Kalı Kissen much esteemed in high quarters. On the occasion of the arrival of His Lxcellency the Right Honourable Lord Napier of Magdala on the 25th Miv 1874 Kumar Kali Kissengave i grand reception in his honour in the same manner that his father Raja Baidva Nath had velcomed Lord Combernere on his arrival after the victorious campaign in the Bharatpur War In connection with this fete there was a great exhibition of fire-works also a ball ind supper Kumar Keli Kissen had the honour of presenting pan and atar to His Excellency the band of Her late Majesty's 62nd Regiment meanwhile playing in welcome kumar kalı kissen wis singled out for honour during the administration of Lord Auckland and was presented with a Khilat which consisted of distinctive garments and a diamond sirpaitch or ornament for the turban. He was ilso, as his father before him granted the privilege of wearing his grandfather's sword of honour and gold medal on all public occasions In the year 1879 Kumar Kali Kissen Roy Bahadur died leaving behind him two sons Dowlat Chandra Roy and Nagar Nath Roy The former found pleasure in work and during his father's life-time from 1875 to 1879, held an appointment under Government as Sub-Registrar of Deeds and Assurances at Cossipore his father's death however compelled Dowlat Chandia to resign his post as he was henceforth to be fully occupied in administering the family estates

Hospital Fund This family have been maintaining for some years a Charitable Dispensary at Bhagyakul and a Rest-house where strangers, irrespective of their numbers, are daily offered food and shelter The family spend large sums of money every year on the maintenance of other semi-religious and charitable institutions, such as the well-known Dacca Saraswat Somaj (Pundits' Institute) which was started by the family some 30 years ago at the sole initiative of Rajah Sree Nath Roy for the diffusion of Sanskrit They also spend large sums of money in the Debsheba at Bhagyakul and Brindabun They have spent much money on works of public utility, such as the building of temples and motts, and the construction of water-works and the excavation of tanks About eight years ago the Hon Rai Sita Nath, in compliance with the wishes of Sir John Woodburn, then Lieutenant-Governor of Bengal, and of Mr Greer, the then Chairman of the Calcutta Corporation, constructed a very large three storeyed building on Elgin Road, Calcutta, for the housing of the working classes This building was fitted with the necessary sanitary arrangements and was intended to serve as an example to others for the construction of sanitary habitations for the poorer classes This cost him some Rs 50,000, and is now known as the Greer Model Dwelling Babu Janoki Nith Roy contributed Rs 55,000 to the "Victoria Memorial Fund Ru Sita Nath has lately made a donation of Rs 5,000 to the Ranchi College Building Fund, and in lugust 1907 he gave Rs 20,000 for the purpose of providing filtered water to the people of Munshigani in the District of Dacca Hon Rai Sita Nath has been untiring and assiduous in his endeavours to serve the Government and the country Ever since he left College he has been taking an active part in all public movements. With the assistance of a few prominent Indian merchants notably of his brother Babu Janoki Nath Roy and Babu Chandi Lal Singh he started in 1887 the Bengal National Chamber of Commerce and has served that institution as Honorary Secretary

ever since On his representa tion the Government of Bengal in 1890 appointed a Commission to enquire into the incidence of tolls levied upon boots using the Calcutta and Circular Canals, and he was appointed a member of that Commission In reviewing the Report, Sir Charles Elliot, then Lieutenant-Governor of Bengal, referred to Rai Sita Nath as "the spokesman of a considerable section of the native mercantile community " The Hon Rai Sita Nath has served as an Honorary Presidency Magistrate since 1888 and has also served two terms as Member of the Port Trust He was clected Sheriff of Calcutta in 1898 and has been an elected Member of the Corporation of Calcutta since 1898 He has been noted for his unswerving loyalty to Government and has never joined in any hostile demonstra-He has been a Vice-President of the British Indian Association for two terms and was appointed a Member of the Executive Committee of the Victoria Memorial Fund, a position of great honour and trust He was also a Member of the Executive Committee of the Famine Relief Fund in 1897 and 1900 At the time of the visit of H R H the Prince and Princess of Wales in 1905 he and Mr Macleod acted as Joint Honorary Treasurers to the Royal Reception Committee Fund He has served in many such public capacities, and on some Government Commissions and was lately honoured by Government with appointment as a Member of the Eastern Bengal Legislative Council, in which he has served with great credit and distinction title of Rai Bahadur was bestowed upon him at the Delhi Durbar

Though born at Bhagyakul Babu Janok. Nath Roy and Sita Nath Roy have from their early life lived in Calcutta and have recently constructed a very large and fashionable three-storeyed building for their residence in Calcutta

Rajah Sree Nath Rox and Brothers are the pioneers of Indian steamer enterprise in Bengal they being the largest shareholders and sole agents of a Steamer Company called 'The East Bengal River Steam Service" which comprises two steamers and eighteen flats and a fully equipped dock

Rajn SUKHMOY ROY Bahadur's Family The rise of this important princely family of Bengal is bound up with the beginnings of the power of the Honourable East India Company The first member to attain distinction was Lakshmikanta Dhur who flourished in the middle of the eighteenth century and was notable for the immense wealth he had accumulated With remarkable foresight he cast in his lot with the fortunes of the British who were at that time strenuously engaged in building up the beginnings of the British Empire in India The times were troubled and the warlike operations necessitated by the convulsed state of the country involved large expenditure Lakshmikanta had rendered conspicuous services to the predecessors of Colonel (afterwards Lord) Clive but when that great soldier became involved in the first Mahratta War Lakshmikanta came forward with the princely contribution of q lakhs of rupees to the East India Company for the furtherance of the military operations By his death the East India Company lost a staunch and tried friend and one who by action and example had done much to pave the way for their subsequent domination. The people lost a no less staunch friend for his generosities were on a large scale. In his place, however, the country gained a no less worthy successor in his grandson, Raja Sukhmoy Roy Bahadur who continued the public and private policy of his grandfather and in turn proved an unswerving friend to the British authorities as well as a generous patron to the people of the country works of public utility have perpetuated his name Using the wealth he had inherited from Lakshmikanta Dhur for the public good he firmly established the family name among the foremost of those de voted to the good of the public His great work was in connection with the improvement of com munications, a great need in those days With great generosity he made a noble gift of one hundred and fifty thousand rupees for the construction of the Cuttack road and caravanserus which were built and constructed for the convenience of pilgrims and other travellers resorting to the temple of Juggernath

w th Europeans owing to his own personal character and the antecedents of his family, and is the only Indian gentleman who has been elected a member of the 'Wheeler Club,' an exclusively European society

He received the title of Khan Bahadur on the 25th June 1909

The late Niwab BAHADUR SYED ASGHAR ALI KHAN DILER JUNG, csi (Bar-at-Law, MT 1869), born 1838, died 23rd December 1896, educated at the Nizamut College, Murshidabad Eldest son of Nawab Zia-ud-doula Mobariz-ul-Mulk Syed Mohammed



Late Nawab Buhadui Sted Asghar Ali Khan Diler Jung, Csi

Hosun Khan Bahadur Tahawar Jung I meal descendant of H H Syed Md Reza Khan Mozuffer Jung, Khan Khanan, who enjoyed a large stipend and a Jagir in Behar which was resumed by the Government of that day on his death received titles from the King of Delhi equal to Nawab Nazim of Bengal appointed by the then Nawab of Bengal, his Naib for Sylhet In 1765 A D appointed by Lord Clive, Naib Nazim of Bengal, President, Board of Revenue Member of the Committee, Jud.cial Department, and Sessions Judge, Dewany and Nizamut Adaluts Family residence, Chitpore,

north of Calcutta On Asghar Ali Diler Jung, in 1862, the title of Nawah Bahadur was conferred, appointed Honorary Magistrate, Scaldah, 24-Parganas and exempted from personal attendance in Civil Courts, 1864 & 1896, vested and revested with 1st Class powers respectively, 1866, first Mahomedan to be created a CSI, and visited Europe, while in London Her Late Majesty was graciously pleased to present the Nawab with a beautiful diamond ring, 1872, returned to India, appointed Honorary Presidency Magistrate and Justice of the Peace Calcutta, 1875, Member of the Bengal Legislative Council, 1876 Commissioner, Cal-Municipal cutta, 1877, Fellow of the Calcutta University, 1883, First Mahomedan Sheriff, Calcutta, he was also Honorary Magistrate and Commissioner, Cossipore Chitpore Municipality Left four children, the eldest of whom is Nawabzada Syed Hussun Alı Nadır Jung, Residence, Calcutta

The Hon'ble Nawab SYED MUHAMAD SAHEB, Bahadur Madras, Member of the Viceroy's Council, son of the late Honourable Mir Humayun Jah Bahadur, CIE, great-grandson of Nawab and Mir Asadulla Khan Bahadur Jagurdar of Chetput and Dewan of Nawab Safdar Alı Khan The Nawab is a descen-Bahadur dant of the Prophet of Islam and 59th in descent, and his family is closely related to that of the celebrated Hyder Alı, the successful soldier who raised himself to the throne of Mysore The Honourable Mir Humayun Jah Bahadur, father of the present Nawab was a son of the late Shahradi Shahrukh Begum daughter of Prince Sultan Yaseer son of Tippu Sultan Yaseen, fourth Nawab Mir Humayun Jah was elected by the non official members of the Local Council to represent them on the Supreme Legislative Council in 1893 when the right of election was first conceded He, however died before taking his seat. His Excellency Lord Wenlock at a meeting of the Madras Legislative Council referred to the deceased nobleman in glowing terms and expressed the sorrow of himself and his colleagues at his untimely

death, and at a later meeting again made reference to the subject in the same high terms in quoting a telegram received from the Viceroy lamenting his death His son set himself to follow in his father's footsteps, and gained the esteem of all by his ability and high charac In 1896 he was selected by H Ε Sir Arthur Havelock Governor of Madras, to fill the important position of Sheriff of Madras, and was the first Mahomedan Sheriff of the city At the Diamond Jubilee in 1897 he was honoured with the title of Nawab In the year 1900 he was appointed to the Madras Legislative Council by Sir Arthur Havelock, and in 1902 re-



Hon Naw ib SITD MUHAMAD SIHEB

nominated by Lord Ampthill, his successor in the office of Governor of Madras He was an invited guest at the Delhi Durbar in January 1903 In October of the same year he obtained the honour of election to the Supreme Legislative Council to represent the Madras Presidency The Nawab has been a strenuous worker throughout his career He was active in Council in the matter of the Official Secrets, the Universities, the Co-operative Credit Societies, and the University Validation His speeches in the Council meeting held at Simla in June 1908 for passing the Explosives Bill and the Incitement to Murders Bill show the complete grasp he has of

The family has been fortunate in having a succession of representatives imbued with the same valuable attributes of public spirit and loyalty to the country and its Government Dowlat Chandra Roy, as senior representative of this ancient and distinguished family, was no whit behind his predecessors in his unceasing efforts for the public weal Among his public contribu-tions were Rs 1,000 to the Bengal Branch of the Lady Dufferin's Fund and Rs 3,000 through Sir Alfred Croft, former Director of Public Instruction, to the Building fund of the Barangar Victoria Grant-in-Aid School of which he was the principal patron He endowed a gold medal to be annually awarded to the student who stands first in the F A Examination of the Calcutta University The Calcutta District Charitable Society received an annual donation from him regularly subscribed to the Sova Bazar Benevolent Society and was a member of the British Indian Society and the India Club His private and unrecorded charities were very large Kumar Dowlat Chandra was no less forward than his ancestors in open display of his loyalty to the British Government On the 12th December 1890 he gave a great reception, at his residence Rajah's Park, Cossipore, to Major-General Lord Frankfort, then Commanding the Presidency Division On this occasion a guard of honour of Sepoys in the service of the Kumar received His Lordship with military honours, and the Kumar with his two sons received the General and his staff on their alighting from their car-riages Kumar Dowlat Chandra Roy was accorded by Lord Lansdowne the privilege of wearing the valuable heirlooms of his family, the sword of honour and gold medal of Raja Sukhmoy on all public Kumar Dowlat Chanoccasions Kumar dra died in the year 1906 Tejas Chunder Roy died childless Kumar Harish Chandra Roy who has succeeded Kumar Dowlat Chandra Roy as senior representative of this distinguished family, was born at Rajah's Park, Cossipore has proved no less conspicuous than his illustrious predecessors in public spirit, generosity and charity, and possesses in a remarkable degree the virtues of his ancestors, His

charities have been large but unostentatious. He has pursued the Scriptural maxim and "his left hand knoweth not what his right hand doeth". He has earned the right of wearing the gold medal and sword of honour of Raja Sukhmoy Kumar Harish Chandra has one son, Kumar Jinanendra Nath Roy, who is being trained to follow in the footsteps of his fathers and worthily maintain the honours of the family when the time comes for him to succeed to them

Khan Bahadur Shaikh WAHIDUDIIN, Premier Rais of Meerut, eldest son and heir of Hafiz Shaikh Abdul Kalim, Khan



Khan Bahadur Shaikh Wahideddin

Shaikh Wahid-Bahadur, CIL uddin possesses the largest zemindari properties situate in the Meerut district He is also a wellknown and prominent Rais in the United Provinces of Agra and The Shaikh comes of a Oudh distinguished family whose c vil and military services have been valuable to the British Government His grandfather, Sheikh Madar Buksh, served in the first Afghan campaign and was present at the battles of Bharatpur, Kamon and Shekhawati His uncle, Shaikh Elahi Buksh, was awarded a Khilat for his meritorious services in the first and second Punjab campaigns He remained loyal during the Indian Mutiny, and

for hs services during the period was rewarded by Government with the village of Panchli and was also honoured with the title of Khan Bahadui H s father, Shaikh Hafiz Abdul Karm, also worthily upheld the dignity and public worth of the family. He received the title of Khan Bahadur, and was created a Compan on of the Most Em nent Order of the Ind an Emp re in recogn t on of services rendered by his ancestors to Government, and also for h s own works of public utility He was honoured by the late Queen-Empress Victoria who presented him with her photograph endorsed with her autograph s gnature in 1891 The landed possess ons of Khan Bahadui Shaikh Wah duddin comprise 112 villages and several indigo factor es s tuated therein. Also a sugar factory at Panchli and a ginning and oil pressing mill at Khandwa Central Provinces, which is named after his brother the "Bashir Mills". The Shaikh is deeply interested in agricultural questions Hs interest has taken pract cal shape in the starting of well equipped agricultural farms, and the found ng of agricultural banks in hs villages. These have been reported on in a highly favour able manner by the Director of Agi culture, United Provinces, in hs printed reports to Government Khan Bahadur Sha kh Wah duddin has extended his interest to educat onal matters He has taken a prom nent share in the starting of public institutions and has estab-I shed a free Primary School, also a free Drawing School and an Arab c Madrassa in Meorut, where he made over a house built by hs father at a cost of Rs 30,000 to the latter institution He also made a donation of Rs 21,000 towards the building of a Boarding-house for Mahomedan students in connection with the Meerut College He has, on many other occasions made munificent contributions towards similar works of philanthropy and public utility The Shaikh has been a Director of the Bank of Upper India since the year 1885 He is also a Trustee of the Mahomedan Anglo-Oriental College at Aligarh, and President of the Mahomedan Association, Meerut, and holds sim lar positions in other Associations He is very popular Raja SAII PROSAD GARGA
The head of the Mahishadal Raj
fimily, was born on the 27th Decem
ber 1881. He is the son of the late
kija Iswari Prosad Garga, and as
described above, fifteenth in descent
from Raja Janardan Upadhyaya, who
founded the Raj in the year 1600. It
was in 1888 that the father of the
present Raja died, and upon his uncle,
Raja Jyoti Prosad Garga, devolved the
duty of his up bringing and that of
his younger brother, Gopal Prosad
Garga, who was born in 1885. From
their early boyhood the brothers were

placed in the charge of emin ent tutors and pundits, and both of them passed with credit the Entrance Examination of the Calcutta University In his boyhood the Kumar Sati Prosad Garga was somewhat delicate in health, and he was given the benefit of res idence at Darjeeling and at Mongyr to recruit As re gards his intellectual develop ment, as above stated, he passed the Entrance Examin ation in 1899, with credit, but his uncle, the late Raja Iyoti Prosad, would not allow him to enter the University In March 1900 he married the daughter of Babu Gada dhar Misra, of Bennies His guardian died of cancer early in the following year, but before his death he had given his nephew a practical course of training in zemindari affairs, and had insisted upon his sharing the burden of maragement This practical training stood him in good stend when, on the death of his-uncle, he was called upon to assume complete control of his own affairs And it is

gratifying to record that during the long illness that preceded the death of his guardian, he was in constant attendance at his sick bed, such filial affection and devotion being rare in the families of the wealthy. The Sradh ceremony was performed in a style befitting the rank and position of the deceased gentleman.

On the death of Raja Jyoti Prosad the question arose as to whether the Estate should be taken over by the Court of Wards, and on this point the Commissioner of the Division wrote to the Kumar on the 23rd January 1901 to the effect that he saw no object in asking the Court of Wards to intervene, and that he had written to the Collector advising him not to listen to any such suggestion "Although," he wrote, 'if the Court of Wards were to interfere, you would be a minor, so long as it does not do so, you must be considered of full age by Hindu Law, being over cighteen"

In consideration, therefore, of the young kumar's training, and his ability to manage the affairs of his Raj during the two years that remained to complete his minority, the Court of



Raja Sati Prosad Garga

Wards did not intervene The confi dence reposed in him by the Govern ment was fully justified, and he conti nued to conduct the affairs of his zemindari with judgment and success unal, on the 27th December 1902, he attained his majority and assumed full and uncontrolled powers In April 1903 this event was formally cele brated with befitting pomp and cere mony and on this date he associated his younger brother, Kumar Gopal Prosad Garga, with the management of the very valuable property known as Nijjote He also celebrated the mar

ringe of his younger brother with much ceremony, and with a lavish expenditure never before witnessed in Mahr shadal, upwards of a lakh of rupees being disbursed on this occasion

Since he first assumed responsible control of the Raj, the Raja Bahadur has designed and carried out many improvements which have added considerably to the value of the property From 1901 to 1904, inclusive, there was a succession of bad years, but in spite of this work on the improvements already in progress was carried on continuously and many new khals

and other works of public utility were completed. He also successfully negotiated the purchase of a further eight anna share of Pargana I umluk, thereby making the Mahishadal Raj a sixteen anna proprietor of the said Pargana.

On the 26th November 1906, the young Kumar Gopal Prosad Garga attained his majority and the Raja Bahadur celebrated this event with the same degree of cere mony and the same lavish ex penditure that marked his own coming of age From this time the Raja Bahadur allowed his younger brother to supervise the management of the Ray in all its branches, the latter having his office in the new Kutcheri buildings This was a notable innova tion, for no previous head of the Raj, either himself or by direct representation, had ever held Kutcheri in the same building and with other officers of the zemindari The new order of things reflects credit on the joung Kumar, the Chota Raja Baha

dur as he is called, and is doubtless a direct result of the progressive ideas with which he is imbued. A son was born to the Chota Raja on the 29th August 1909. The happy event was celebrated with great pomp and rejoicings by the Raja Bahadur, alms and charities being distributed with an unstinted liberality to some 6,000 beggars.

The Raja Bahadur, his brother, and his brother in law take a keen interest in the physical development of the students and school boys of the Raj, and by the introduction of manly

the affairs of the country and of the crisis through which India is passing He Joined the Indian National Congress in 1894, and has supported the movement ever since When the Congress held its session at Madras in 1903, he was elected Chairman of the Reception Committee He is President of the Madras Mahajana Sabha and of the Mahomedan Educational Association of Southern India, and has been active in promoting good feeling between the Mahomedan and Hindu communities

The MAHISHADAL RAJ bulk of the land comprised within this Ray is situated in the Sub Division of Tamluk, in the Midnapore District, a compact area of about 33 miles in length and 22 miles in breadth, supporting 7 population of about 150,000, distributed in 517 villages and 56,389 holdings of this populous little territory con paddy, nice, jute, sugarcine The produce and prim juice, molasses together with vegetables, fruit, and betel leaves There are marts or hats at Geonkhali, Banka, Gopalganya, Radhaganya, Tam luk, and several other pirces The income of the Raj is 7 lakhs of rupees, and the Government Revenue and cesses amount to nearly three and half hhhs of rupees The prevailing rate of rental in the Ry is very low, and compares favourably with other dis tricts in Bengal The Rajas of Mahi shadal have never shown themselves waricious, and have not enhanced the rents of the tenants in accordance with the rise in the price of staple food grains in the district. Thus the rents of holdings, as fixed at a time when Paddy was selling at eight annas a maund, are still maintained at the same rite, although, meanwhile, the price of paddy has more than quadrupled The tenants of the Raj are therefore in far easier circumstances, and are more contented than those in neigh bouring districts Then again, the Raj being held in Khas, without the inter vention of Patnidars and other inter mediaries, the increase in the miterial prosperity of the Mahishadal tenantry has been continuous, and subjected to no drastic fluctuations Raj is in a good financial position, with money to devote to works of public And yet the utility It is in the enviable position of being one of the most solvent of the big zemindaries of Bengal

Raya Janardan Upadhyaya, a high class Brahmin, of the Saroria branch of the Kanouj Brithmins, migrated from the North West Provinces and settled in Bengal in 1600, the memorable year in which the Charter of the East India Company was granted The family, Raja Sati Prosad Garga, and his brother, Gopal Sati Garga, are fiftcenth in descent, the generiogs of the family being is follows—First came Rin Janardan Upadhy ya who settled in the Province of Bengal in the year 1600 He was followed in succession by Rya Durjan Upidhyaya, Raja The Rum Suran Upadhy ya, Raja Raja Ram Upadh, aya, Raya Sukh Lal Uprahyrya, and Raja Ananda Lal Upidhing Here occurred breat, as the last named died without issue, and his widow, Rani Janaki, adopted a son named Matt Lal tion was contested, and eventually the estate passed to the Rya Guru But the 'rdop Prosad Garga as the next of kin to Anında Lal Uprdhy 13 7 Rya Guru Prosed was followed in succession by Raya Raghuman Garga, Raya Bharani Prosid Girga, Raja Kali Prosid Girgi, Raja Jagannath Garga, Raja Ram Nath Garga, and Raja Lachman Prosad Girgi The latter left three sons, Ryn Ish m Prosid, Rajn Jooti Prosid, and Kumar Ram Prosad, the two latter died without leaving any issue Raja Iswan Prosad died in 1888, leaving two sons, Raja Satt Prosad and Kumar Gopal Prosid, and a daughter The Gargus, like the Upadhyays, came from the North West Provinces, their original habitation having been the village of Ghuronthy, in the district of Banda They brought with them their laws and customs into the land of their adoption ... The two sons have received an excellent training to fit them for the positions they now hold, while the daughter, Kumari Bibhavati, is married to the Dewan Sabib of the Ry, Babu Probhet Chindry Dobe, who thus becomes the brother in law of the head of the family, with, as executive head of the Ry

estates, full control of the collection The Ray is still maintaining the twelve Thakurbitis founded by the Upadhyayas as well as the Hospital and Charitable Dispensity, and the High English School, established in the early sixties by Rija Lichmin Prosid Garga, the grandfather of the

present Ruja Raja Luchman Prosad Garga was the pioneer of English education in the district, for which he received a Certificate of Honour from the Government Both the above mentioned institutions are in a flour isning condition and are doing useful work The charities of the Ry are not confined to religious, educational, and medical institutions alone, but the Hindu religious festivals are, of course, celebrated with besitting pomp these, the great Car festival is worthy of special mention importance to that held at Puri The car itself is a wonoerful piece of work It is next in manship, and on the occasion of the festival a mela is held, extending over cight days and attended by about 100,000 people utility, too, have always found gener Works of public ous purons in the Mahishadal Ray

 t_{nnls} The title of Ryanas hereditary in the family, being based on the Sanad granted by the Mogul Emperor of Delhi For thirteen generations the heads of the Mahishadal family bore the title of Raja But the Srand was lost in the confusion that prevaled when, under cover of a decree of the Calcutta Supreme Court, the palace of Mahishadal was taken possession of by the people of the Seal fam ly of Calculta. And though Government conferred, both on the lite ind the present head of the family, the title of Raja as a personal distinction it the Government will restore to the family its hereditary title of ancient origin has always been loyal to the British, and successive District Officers, Commissioners of the Division, and The Raj Lieutenant Governors have, appreci ated the good work that has been so unostentatiously carried on by the Ry, and the good feeling that has always existed between the Ray family and the district officials On this account the Ru enjoys the privilege of keeping two guns, with other firearms and ten retainers

There is a nicely situated guest house maint fined at the expense of the Ray, and here Officers of Govern ment are entertained whenever they choose to accept the hospitality of the family The estates are managed by the Dewan Sahib, with the assistance of Managers, working directly under the control and guidance of the Raja Bahadur, the Dewan being the executive head of the Raj



Rao Bahadur DHONDIBA HANUMANTRAO BARDE, JP, a well-known and enterprising Building Contractor, and a specialist in matters of Hindu architecture, was born at Kodit, Purandhar Taluka, in 1841. He is descended from the celebrated family of Bhonsle of Bhuinj in the Satara District, and is related to several Maratha ruling Chiefs in India in-



Rao Bahadur D H BARDE

cluding the royal house of Gwalior The family name was changed to that of Barde nearly 400 years ago as some of its members stormed Kodit and captured it After going through an elementary course of instruction in the village school, he began his career in the early sixties as a Building Contractor in Bombay, and soon won the golden opinions of Civil Engi-

neers and Architects by his urbanity, integrity and capabilities Mr James, MICE, for very many years Deputy Executive Engineer of the Bombay Municipality, says, "I have nothing but praise to give of his good work and the way in which they have always been carried out, and there is no Contractor I would rather give work to than Rao Bahadur Dhondiba Hanumantrao". He has carried out numerous Government, Port Trust, and Municipal works of various descriptions and magnitude, including Tata's palace, with consummate skill and remarkable success

Rao Bahadur Dhondiba's proficiency and skill in Hindu architecture are seen in the excellent pile of structures at Wanoree near Poona, built for H H The Maharaja of Gwalior Mr Shapoorjee N Chandabhoy, FRIBA, of the firm of Messrs Shapoorjee N Chandabhoy & Co, received very valuable co-operation from the Rao Bahadur in regard to the style and design of the Temple and Chhattree works at Wanoree

Rao Bahadur Dhondiba is also a public spirited citizen, rendering unostentatiously valuable services both to the Government and his countrymen He was nominated Justice of the Peace for the Town and Island of Bombay in 1892, and the title of Rao Bahadur was conferred upon him in 1898 as a personal distinction by Lord Elgin, the then Viceroy and Governor-General of India He also obtained a certificate of merit in 1899 from the Bombay Government for having rendered "valuable services to Government in Bombay during the operations against Plague in the

years 1897 to 1899 "Very recently he was cordially thanked by Government in Government Resolution and Notification, dated 1st September 1908, for the assistance rendered by him in connection with the recent disturbances in the City of Bombay

Messrs BAS ANT RAM & SONS are a leading Indian firm of Public



Pandit BALAK RAM PANDAA

Accountants and Auditors in the Punjab, with their office at Lahore, but their practice extends throughout Northern India. The firm was originally established by the late Pandit Basant Ram, a retired Government Accountant of superior attainments and who had educational qualifications of a very high character. His sons, Pandit Vidya Sagar Pandya and Pandit Balak Ram Pandya, were all along

sports and out door games, they do their utmost to encourage healthy competition. The two brothers have also artistic tendencies, they write poetry in Bengali and are fond of painting. In the last named art they have attained a certain degree of proficiency and the pictures that decorate the Car of Gopaljee are the result of their joint efforts. They are also keen photographers and excellent shikaris.

As in the past, so in the present, the Raj is distinguished for the liberality with which it encourages worthy objects, and the Raja Bahadur responds readily to the calls for donations towards various public and private purposes. The Raja is a strictly religious man and an orthodox Hindu, a vegetarian and a total abstainer. He is a staunch believer in the omnipotence of the Almighty, an upholder of the truth, and a just and generous guardian

of the large properties committed to his charge. His domestic relations are of the happiest. In April 1908 the Lieutenant Governor of Bengal, when conferring upon him the title of Raja, said in the course of his speech—"In consideration of your very high position in the District, your unstinted liberality and your excellent character, the title of Raja is conferred on you."



Malarial Fever and Malaria which have been regarded as authoritative and are quoted in several medical works. Dr. Bose was held in great esteem by his contemporates and had an extensive private



Mr NOCENDIA KUMAP BOSE

He devoted time to public affairs and served for about ten years as a Municipal Commissioner, but later in his career the pressure of his professional duties compelled him to give up public life He devoted attention to the arts and was skilled in painting and embroidery work Dr Bose was noted for his charities. He established a Charitable Dispensary in his native village, and used regularly at Durga Puja time to distribute alms, food, and clothing to thousands of the poor He died in the year 1898 at the age of 67 His charities are carried on by his only son Babu Nogendra Kumar Bose Dr Bose came of the ancient family of that name settled at Dandirhat in the 24-Parganas, Bengal, who trace their origin from Dasarath Bose, who came from Kanouj with the five Brahmans who were invited to the court of Adisur, then King of Bengal, some 400 years ago

Mr PERCY BOSWORTH-SMITH, Manager and Superintendent, Tank Mine, Geologist and Metallurgist, Kolar Gold Fields, India Born in England in the year 1862 undeducated it Chatham House, Ramsgate, and the Royal School of Mines, where he obtained his Associateship Certificate and guned's Bessemer Medal - He came to India in the year 1885 on being appointed by the Government of Madras to report on diamondifer ous and gold bearing lands four years in Government service, he obtained employment Manager of the Sonapet and other mines in Chota Nagour, where he remained for three years leaving in 1893 to take up vorl in the oil field, of Gallicia He returned to India in 1894 and took up his present appointment as



WY P BOSWOFTH SMITH

Manager and Superintendent of the Tank Mine, Kolar Gold Fields He inspected and reported upon mica mines in Nellore, Richmond Phænix Glemock, and other gold mines in Wynaad, Husun and other mines on the Dharwar Gold Field, as well as many mining properties in the Mysore State. In 1905, his services were entertained, in addition to the duties of the above post, as Manager and Consulting Engineer to the Deccan Gold Field Development Company, Ltd. While Mr Bosworth-Smith was Mineralogist to the Madras Government, he wrote a report on the Kolar Gold Fields and their southern extension,

which was published in 1888. He is Vice-President of the Mining and Geological Institute of India Tellow of the Geological Society, London Member of the Institute of Mining and Metallury Tondon and Member of the American Institute of Mining Engineers. He takes a leen interest in sport has captained the local Kolar Cricket Club for some time past, and is also a good rifle shot, having won several cupart rifle meetings.

Mr ROBERT HENRY POWER BUILLY MIMM Iondon. Superintendent Ooregum Gold Mining Company Ooregum Born at Warvick Queensland, Australia in the year 1866 and educated at Downside College near Bath, Ingland On leaving school he studied at Cambrone England for the purpose of requiring a loveledge of mining assaying and surveying. He proceeded to America and from 1885 to 1888 he was engaged in gold mining in Venezuela In the latter year he came out to India where his services were engaged for the Kolar Gold Fields



Mi R H P Bulles

He is now the senior Superintendent on these Fields in point of residence From 1891, he was engaged in managing mines for various Companies, but after two years, from 1893, his services were defin-

active partners of this firm when in 1903 Pandit Vidya Sagar Pandya left the firm as he was asked to Join the People's Bank of India Limited, and he is now the Secretary of the Indian Bank Limited, Madras The present managing proprietor of the firm is Pandit Balak Ram Pandya, an educated and energetic young gentleman, having a varied expenence in accounts Pandit Balak Ram Pandya is an examiner for the Punjab University in Commercial subjects With Pandit Balak Ram Pandya the firm has obtained a wide popularity and extensive practice in business circles Basant Ram and Sons are Auditors of various Banks, Insurance Companies, Mills, Co-operative Stores, Factories, Trading and Manufacturing concerns, Presses, Estates, Associations, Libraries, Clubs, Colleges, etc Besides the confidence reposed in them by the Joint Stock and other Companies in the Punjab and elsewhere, their services are availed of by the Government Institutions, whenever they are in need of the services of an Auditor, or an expert in Commercial matters

CHARLES BENNETTS, Cashier and Chief Accountant, Ooregum Gold Mining BARRATCompany, Kolar Gold Field, and



Mr C B BENNETTS Secretary and Treasurer to Messrs John Taylor & Sons' Committee,

Kolar Gold Field Born in Cardiganshire, Wales, and educated at his native place and at St John's College, Ystrad Meurig and grandfather had both been in the service of Messrs John Taylor & Sons, the well-known firm of Mining Engineers of London for many years He had the misfortune to lose his father in 1883, when he was 16 years of age At this time Messrs John Taylor & Sons took him into their service and employed him in the office department of their Lisburne Mines in Cardiganshire, where he remained some eight or nine years He acquired a practical training in mining during that period was offered and accepted his present post on the Kolar Gold Field in 1890 He has had a practical experience in mining extending over a quarter of a century During the absence of the Superintendent of the Ooregum Mine he has on several occasions acted for him Mr Bennetts' family were formerly settled in Devonshire where they were for many years engaged in mining. His late father moved to Cardiganshire in 1846 Mr Bennetts has also acted for the past fifteen Jears as Agent for Nobel's Explosives Company

The Late Dr. JUGGO BUNDHU BOSE, M.D. Born in the year Educated at Dacca College where he gained the Junior Scholarship in 1849 In the following year he Joined the Medical College where he obtained a second scholarship He passed the first year's examination with credit and was appointed assistant to Di Allen Webb at that time Demonstrator of Anatomy, and secured another scholarship During his five years' course at the Medical College he carried off the following medals and certificates of honour—Gold medals in Des-Materia Goodeve medal, 3rd class certificate Medica, Medicine, Chemistry, of honour in Anatomy and Physiology, 2nd certificate in Botany, and Ist certificate of honour in Botany, Anatomy and Physiology passed the Junior examination, standing first in the list, and obtained Prizes in Chemistry and also the Goodeve prize He took first place in the Midwifery examination,

taking a gold medal and first class certificate of honour in the subject



The late Dr Juggo Bundhu Bose He passed the G M C B evamination with great credit standing first in order of merit On passing his first examination he was appointed in charge of the Seamen's Hospital at Akyab, an important post which testified to the great esteem in which he was held by his superior officers Here he discharged his duties with ability Later he was appointed Demonstrator and Professor of Anatomy at the Medical College, and subsequently Teacher of Materia Medica in the Campbell Medical School, from which service he retired on pension owing to failure of health In 1863 he passed the MD examination In the year 1878 Dr Bose was made a Fellow of the Calcutta University, and also became President of the Faculty of Medicine at the same University In 1889-90 he was Examiner for the MB and MD Examinations In 1887 he founded the Calcutta Medical School at present located at Belgachia and acted as its Pres-1dent He was elected Vice-President of the Medical Congress held in 1896 He has written largely for the medical press, and published several articles on Diphtheria, Typhoid Fever, Scarlatina,

ment now in occupation of Messis Hoare & Co Mr Chandabhoy has recently completed a large college building called "The Byramjee Jeejeebhoy Chantable



Mt Mt nchfrshah N Chandabhox

Institution," opposite the Charm-Road Railway Station, Queen's Road Mr Chandabhoy is now adding a fourth floor to 'Alice Buildings' He has constructed many of the large bungalows on Malabar Hill, Bombay At Poona he built a palatial building known "Jeejeebhoy Castle," and he has also erected a number of mills and residential houses and bungalows in the Mofussil To his building contracts he adds a large business as Sir veyor, Appraiser and Adjuster, in which capacity he is employed by many leading European Firms and Fire Insurance Companies He has had extensive practical experience in this line for many years past He also acts as valuer, etc., in lands and buildings, and as arbitratoi in public and private cases In his business he gives employment to a large staff of workmen and over-lookers Chandabhoy is Agent for Hindustan Pressing and Manufacturing Company, Limited, and the British India Pressing and Manufacturing Company

The late Mr NUSSERW INJEE CH INDABHOI, the First Parsee

Civil Engineer, was born in Surat in He received his early training in the local Government English School and being elected to a Clare Scholarship joined the class of Civil Engineers in the Elphinstone College Bombay He soon there won the good opinions of Professors Bell, Orlebar, Pole, and Harkness, particularly for his proficiency in mathematics He passed the Civil Engineering examination and joined Government service in 1849 and was appointed teacher in the Engineering class opened in Bombay In 1854 he passed very creditably a higher examination and was found qualified for promotion to the rank of 1st class Assistant Engineer was given charge of the Engineering School at Poona, where he conducted his important duties in a very efficient manner, training up batches of young men for the profession at a time when there was very great demand of them For this he was warmly thanked by the Government He left Government service for private practice in 1863 During his stay at Poona he rendered a very important service to the local Municipality in connection with the



The late Mr NUSSERWANJEL CHANDABHON

Katruj Water-works He was appointed paid Commissioner for Poona in 1866 but preferring private practice he returned to Bombay in

He soon built up an extensive practice, having designed and carried out many mill buildings bungalows and architectural edifices His report on the railway bridge of the GIPR at Nimbora near Bhusawal in connection with a railway accident was highly admired by the late Mr Thomas Ormiston, MICE, of the Port Trust, one of the then leading Civil Engineers in He took a keen interest in the civic affairs of Bombay as a member of the bench of the justices, and latterly as a member of the Municipal Corporation He died in

SHAPOORIEE Messrs CHANDABHOY & CO, Architects, Engineers and Surveyors, Bombay Mr Shapoorjee N Chandabhov, rriba, was born at Surat in 1850, and was educated at Bombay After finishing his education he joined his father, the late Mr Nusserwaniee Chandabhoy, Government Civil Engineer, from whom he received a thorough and practical training and after serving with him for several years, he, together with his younger brother, became a partner in the firm in 1880 Four years later the father died and the two brothers continued the business in partnership until 1900, when the partnership dissolved, and Mr Shapoorjee Chandabhoy continued the business on his own account I ater on he was joined by the three partners, who together with himself, at present constitute the firm, Messrs Vicajee A Taraporvala, MSA Sohrab F Bharoocha, MSA and Burjor S Jamshedji Aga LCE

Mr Shapoorjee N Chandabhov was in 1904, elected a fellow of the Royal Institute of British Architects, he being the only Parsee gentleman practising as an architect in Bombay who holds that honour He had previously, in 1890, been elected a Member of the Society of Architects, London, and in 1806 he was elected a Member of the Society of Arts, by the Council in London Mr Shapoorjee is also Architect to His Highness the Maharija of Gwalior for whom he is now building a temple at Poona He has also erected and altered many large buildings in Bombay and the Mofussil Among the buildings

itely engaged by Messrs John Taylor & Sons, Mining Engineers of London, under whom he served in several Companies till 1900, when he was appointed Superintendent to the Ooregum Mine Mr Bullen is a member of the Kolar Gold Fields Mining Board He is well known as an extremely able Mining Engineer and his wide and varied experience has been of great benefit to his employers He takes the greatest interest in the affairs of the Kolar Gold Fields with which he has now for many years identified himself

Mr DWARK 1 NATH CH 1KR 1-VARTI MA, BL, MBAS, Honorary Fellov of the Calcutta University is one of the most prominent members of the Calcutta High Court Bar He comes of a high class and respectable Brahman family of the village of Gangatiya in the District of Mymensingh His grandfather, the late Ramanandi Chakravarti, was a great devotee of Shiva and lived a life of high devotion in that part of the country His father the late Kalikishore Chakravarti, was one of the leaders of the Mymensingh Bar, who like his father also was of a religious turn of mind and retired from the profession early in life

Dwarka Nath is the eldest son of his father It a very early age he was educated at the Hardinge School at Mymensingh and passed the final examination with a scholar ship and joined the Lilla school where he obtained a scholarship at the Matriculation Examination He then joined the Presidency College of Calcutta, secured a scholarship in the First Arts Examination and graduated from there, and obtained the Ryan scholarship He stood first in Physics and Chemistry in the W A Examination and vas offered a post as Lecturer in Science in the Presidency College But he had made up his mind to join the Bar, so he declined the post, although much pressed by Sir Alfred Croft, the then Director General of Education, to accept it From the very beginning of his career at the Bar he showed great ability and legal acumen His rapid rise and great success at the Bar have fully justified the early predictions which were made of his future career by members of both the Bench and the Bar His great talents, affable and winning manners have secured for him a high position in Calcutta Society

He has been always a great patron of education, and has helped many poor students with monthly allowances, books, food and lodging In 1898 he was elected a Fellow of the Calcutta University by a large majority and is now an Honorary Fellow for life. He has been nominated by the Lieutenant-Governor of Bengal as a member of the Agricultural Board of Bengal and is still a member of that Board. He became a member of the Asiatic Society of Bengal in 1906 and was made a member of the



Mr D N CHARRAVARTI

Indian Research Society in 1907 He is a prominent member of the British Indian Association

The respect in which he is held by his countrymen and the confidence they have in him can be judged from the fact that he had been offered the Presidentship of Mymensingh District Conference, but he declined the honour because he is a moderate of moderates in politics

The Chakravartis of Gangatiya may be called a race of lawyers. The father of Dwarka Nath was a first grade pleader of Mymensingh in the eurly sixties. His uncle, the late Ishan Chandra Chakravarti, BL, was for some time the Government Pleader and was the leader of

the Mymensingh Bar His other two uncles, Haithar Chakravarti, Bi, Vakil High Court, and Kalinarayan Chakravarti, are still practising at Mymensingh His vounger brother, Girish Chandra Chakravarti is one of the most successful pleaders of Kishoregunge in the District of Mymensingh, and is the Vice-Chairman of the local Municipality

Dwarka Nath is an austere and orthodox Hindu With the help of several leading members of the Brahman community he has a relation called the

Shava, composed entirely of learned and leading Brahmans, for rusing the moral and spiritual status of the Brahmans of Bengal The Shava, purely a non-political one, promises to be a very successful organization Although a liberal patron and organizer of many movements for the educational, social, agricultural and industrial improvement and welfare of his countrymen, he is of a retiring nature, devot ing the whole of his time to the interests of his clients and his books of which latter he has a very large library He has four sons all of whom are at present studying in Calcutta Gopal Chandra the eldest is a graduate and is intended for the law

Mr MUNCHERSHAH N CHANDABHOY, MSA, MSE (Lond), Architect, Engineer and Surveyor, Raja Bahadur Motilal's Mansions, Apollo Street, Fort, Bombay Born at Surat, on the 12th May 1856, and educated at Bombay Proprietary School He studied Engineering under his father, the late Mr Nusserwanjee Chandabhoy, Professor at the Government Engineering School, Poona, and in course of time became a partner in his father's Firm In this capacity he practised his profession in Bombay Under his auspices the Firm carried out many large and important building contracts in Bombay, constructing some thirty large cotton mills, silk mills, and erecting many commer-cial buildings in Hornby Road and Esplanade Road, including the building next to Messrs Treacher & Co 's establishment, also the building belonging to the Hon'ble Byramjee Jeejeebhoy Trust Settle-

1 - of +1) Into Mr ĭ was born in Bombay in November 1879 On passing the Matriculat on Examination of the Bombay University from the Proprietary High School he jo ned the Elph nstone College, and thereafter passed the Prevous Examinat on After ths he studed for the Civil Engineering line in the College of Sc ence, Poona He passed the L C E Examination of the Bombay University in 1902 He served on the Bombay Municipality for about four years as an Inspector of Streets and Buld ngs and of the House Improvement Branch He was elected Fellow of the Society of Science London in 1903. He has carried out the construct on of the buldings of the Colaba Land and Will Company L m ted, the Emperor Edward Spinning



Mr B S J Aca

and Manufacturing Company, Limited and other buildings in Bombay He joined his uncle's firm in 1907

Ru Sahib GOP L CHANDRA CHATTOP LD HYLL, BL, WIE CE born in 1857, is the voungest son of lite Babu Kali Komal Chattopadhlay, a high class Kulin Brahmin whose grandfather came from Vikrampur, East Bengal, and married the only daughter of Dewan Ramchandra

Mukerjee and inherited large estates in the neighbourhood of Calcutta. He is a distinguished graduate of the Calcutta. University and a



Ru Salich G C CHATTOPADHAAA BACF

passed Assistant Engineer from the Thomason Civil Engineering College, Roorkee

In the first year of his service, he was employed in preparing projects for Jubbulpore Water-Works, the Jubbulpur-Mandla Road, and of the Warora Colliery In the 2nd year of his service in 1880, he was transferred permanently to the State Railway Branch of the P W D, and placed on the construction of the Weinganga Bridge and then on the Nagpur-Chattisgarh State Railway Extens on Surveys In 1882 he was transferred to Upper Assam where he constructed the Jorhat State Railway, which was the first railway in Assam, and was honoured with the title of Rai Sahib on the opening of the line in 1885. In 1887 he constructed the Durbhanga-Sitamarhi Branch of the Tirhoot State Railway and was promoted to Executive rank Gopal Chandra has a record service in the Department of Railways, he surveyed and prepared projects for 2,000 miles and constructed over 500 miles of railways. He was on the surveys and construction of the Gauhati section of the term ' "ailway, of the (Cuttack Ralway, on the surveys and construction of several branch lines of the Eastern Bengal State Railway, Lalmonir Hat, Deomoni Hat, Mymensing-Jagannathgunge, the Bogra-Sultanpur and, lastly, on the Golakgunge-Gauhati extension which he retired Ir 1903 on retiring from service he took chambers in the High Court as Consult ng Lngineer, Surveyor and Valuer In the same year he started an Institute of Engineers under the name and style of "Institute of Engineers Calcutta," and was elected President of the same It is doing much useful work Later on he founded an institution to give practical training in Draw ng, Surveying and Eng neering to a limited number of young people In 1905 when the Bengal Prov ne al Agricultural Association was formed under the Presidency of His Honour Sir Andrew Fraser, Rai Sahib Gopal Chandra Chattopadhyry was deputed by the Bengal Landholders' Association, of which he is a member, to represent them on the Agr cultural Council Further he has organised a limited company with a capital of five lakhs of rupees which has been registered under the name and style of the Bengal Agricultural and Dairy Farm, Ltd, being himself the Managing Director

Rao Bahadur BAPU R40 DIDI KINKHEDE, WA, Pleader, Vigpur Son of the late Dadaji alias Krishnajee Kinkhede Born at Nagpur in the year 1856 Educated at the Free Church Institute, Vagpur, and passed the Entrance Examination in 1871 He subsequently attended the Government High School, Saugor, and continued his attendance after this institution was removed to Jubbulpore In 1873 he passed the Frst Examination in Arts from Jubbulpore, and joined the Muir Central College, Allahabad, at that time affiliated to the Calcutta University He took the B A degree, second class, in 1875, and the M A degree in Sanskrit, second class, in 1877 He was the first student from Nagpur to obtain this honour Mr Bapu Rao received scholarships from the Government of the Central Provinces for the F A and B A degrees, and from the Government of the N-W Provinces for the M A degree He also took

out by him are the Alice Buildings
The Framjee Petit Parsee Sanatorium, and the new block of the Great
Western Hotel Mr Shapoorjee
has also designed and built Spinning



Mr SHAPOORIFF N CHANDABHOA

and Weaving Mills The firm are it present Architects to the Sasson Spinning and Weaving Company the Sassoon Silk Mills the Emperor Edward Mills, and the Parsce Panchayet, etc. He has followed his profession in Bombay for upwards of thirty years, and for twenty-four years he has been a prominent Freemason is Past Master of Lodge Rising Sun No 556 S C, P D J D of the Grand Lodge, and is also one of the founders of Lodge Sir Lawrence Jenkins, No 3275 E C

Mr VICAJEE ARDESHIR TARAPORVALA, MSA, ISSC (Lond) was born in Surat in 1875 He belongs to the well-known family of Vicajee Meharjee of Tarapor, which is his ancestral town, in Thana District He received his primary education in the Fort High School of Bombay, and matriculated from the Government High School of Thana, known as the Byramjee Jeejeebhoy II gh School He soon joined his father as a building contractor After a period of two years he took to the study of architecture by correspon-

dence and articled himself to Mi Shapoorjee \ Chandabhoy, when he had soon the opportunity of carrying out under him the work of the Framjee Dinshaw Petit Sanatorium for Parsees, a magnincient pile of buildings on Cum balla Hill Bombay Besides many other buildings Mr Vicajee has also carried out the work of Petit Hall a palatial building on Malabar Hill He is also responsible for des gning and carrying out the work of the Bomanice Dinshaw Petit Parsec General Hospital now ın course erect on on Cumballa Hill Mr Vicajee was elected Member of the Society of Arts and Tellow



Mi \ \ TARAPORVALA.

of the Society of Science in 1901 and Member of the Society of Architects, London, in 1904

Mr SOHRAB F BH \ROOCHA, MSA, 1SSC (Lond), son of the late Mr Framjee Sorabjee Bharoocha (nephew of the late Mr Nowrozjee Furdoonjee), Chief Justice, and for some time Judicial Councillor and Dewan of the Jamnuggar State in Kathiawar, was born in Bombay in 1877. He was educated at the Elphinstone High School and the Victoria Jubilee Technical Institute. He passed the technical examinations of the City and Guilds of London Institute and also qualified himself as

an Account int by passing the examination of the London Chamber of Commerce and other English bodies. He also managed for some time the Victoria Roller Flour Mills which belonged to his



Mr S I BHAROOCHA

father He was then articled to Mr Shapoorjee N Chandabhov who was then engaged with the work of the Framjee Dinshaw Petit Parsee Sanatorium, and sub sequently joined the firm as partner. He has carried out the work of the "Esplande Substation" for the Bombay Electric Supply and Tramways Co, Ld, buildings in Princess Street for the late Hon'ble Mr Justice Badrudin Tyabji, the build ng known as "Mon Desire" at Cumballa Hill, the Students' Quarters built of cement and concrete in connection with the Technical Institute, and other works He was elected Member of the Society of Arts and Fellow of the Society of Science in 1901 He received instruction from Mr G \ T Middleton, ARIBA, of London, and was elected a Member of the Society of Architects, London, in 1904 He also attends to the adjustment and survey of fire insurance matters in connection with the firm

Mr BURJOR SORABSHAW J \MSHEDJEE AG \, L C E , F S SC

of the East India Association, and in other ways singled him out is a man of mark Now that he has triumphantly passed his finil examination for the Bar and is about to icturn to India, I am perfectly sure that a high and useful career awaits him in this country '' In 1883 Mr Manekjee annotated and published a Commentary on the Land Laws of the Central Provinces, and six years later, he brought out a Common-tary on the Central Provinces Tenancy Act, which gave unmistik able proof of his industry and learn ing In 1891, Mr Manekjec, whose forensic ability had become well known, was appointed Government Advocate at Nagpur Ayear before that he had been instrumental in getting the great Bhonsla Estate partitioned in the interests of the young members of the princely house In 1907, he presided at the Provincial Industrial Conference at Raipur Mr Manekjee has always taken a warm interest in the muni cipal affairs of Nagpur, and was for nineteen years a leading member of that Municipality He has been a pioneer in the development of the mineral resources of the Central Provinces, and in the establishment there of ginning and press factories By his genial good nature, his ability, his public spirit, and his courtesy he has made himself a general favourite among the inhabitants, and has won the esteem of high European officials He has not only been a prominent member of the Nagpur Municipality, but has indentified himself during the last 20 years with all the important political, social, and industrial movements in the Central Provinces

In 1908, in recognition of his many distinguished services, he was appointed a Member of the Imperial Legislative Council of the Governor-General of India, as a representative for the Central Provinces The appointment has given universal satisfaction throughout India

Mr ZACHARIAH MONTEAGLE D'SILVA Advocate, Mandalay, is a native of Burma, having been born at Moulmein in 1837. His father held an appointment in the Madras Commissariat under the Government of India Mr D'Silva

was educated in the country, privately and it St Patrick's School, as it was then. At the age of fourteen he was apprenticed to a mercantile firm, but before he had served his term another firm isked for his services and, permission having been obtained, he was transferred. He shortly afterwards entered Government employ, and Sir Archibild Bogle, Kr., Commissioner of the lenisserim Province, appointed him is releak and subsequently Head Clerk of the Judicial Branch of the Commissioner's Court His services were so well appreciated that at the age of twenty-one he was offered a judgeship (Isitkay) but this he declined on account of his youth



Mi Z M D'SHAA

Sir Archibald Bogle retired, Mr. D'Silva decided to leave Government service, and he again engaged in mercantile pursuits. He next turned his attention to the study of the law and entering the legal profession, he practised at Moulmein till 1886, when Upper Burma having been annexed by the British Government, he removed to Mandalay and continued the practice of his profession at that centre until about 1902, when he retired from active professional life Since his retirement he has devoted his attention to literary and other work He was enrolled an Advocate of the Chief Court of Burma on

its establishment. In 1886, Mr. D'Silva started a newspaper at Mindility at the suggestion of Reuters igent, who give him every assistance in obtaining presses and plant. Thus was established the present "Mandalay Herald" a triveckly publication and the oldest established nev spaper in Upper Burma Mr. D'Silvi vis a member of the Municipal Council of Mandalix for a short period. He owns large property in land and houses and is the proprietor of Salween House Attarin House Tenasserim House Amherst House and Moulmein House He has also in terests in six mills and rice mills and has recently been engaged in the establishment of a motor-bus service in the Shwebo District D'Silva is in his 71st year. He still works with energy and activity, ind would put many a man, younger in years to the blush

The Honourable Sir VEM-BAKKAM COMANDUR DESIKA CHARRY, KT, BA, BL, IML, Madras Born at Madras on 29th December 1861 of the well known Vembakkan family of which Sir V Bhushyam Iyeng Ir, KT, CIF Dew in Bahadur, is the present recognised head Among other distinguished members of this family were the late Dew in V Ramiengar, csi and the late Dewan C V Runga Charlu, CIL Sir Desika received his education at the Wadras Presidency College, whence he graduated in Arts in 1882. In 1886 he obtained his degree of B L and commenced practice at the Madias Bar where his father, V Raiagopala Charlu, and his uncle, the temporarials V Sadagana Charlu. the Fonourable V Sadagopa Charlu, were practising lawyers of the High Court of Madras in the sixties of the nineteenth century He has obtained a considerable reputation at the Bar His professional occupations, however, have not limited his energies in other directions, and he has always been active in public life In 1896 he was elected a member of the Madras Municipal Corporation and for the greater part of his connec-tion with that body he has been an active member of the Standing Committee The Madras Corporation elected him in the year 1904 to

two scholarships at the Muir College, for Sanskrit In 1877 he obtained the appointment of Naib Tahsildar at Ramtck, C P, afterwards serving in the same capacity at Warora In 1879 he was appointed Clerk of Court in the office of the Deputy Commissioner at Chanda In the meanwhile he studied law and passed the local Pleader's Examination in 1880 He was appointed Extra Assistant Commissioner in 1881 and served at Wardha and Nagpur, but resigned Government service in December 1883 to join the Bar is a 1st grade Pleader, and has practised at Nagpur ever since He joined the local Municipality in 1884, and since 1886 has filled the post of Vice-President to that



R to B th idur Bapu R to Dada Kinkhi de

body For some years he was Managing Director of the C Swadeshi Mills, since converted into the Petit Swadeshi Mills He is a member of the Committees of the Morris College and Neill City School, and Secretary of the local branch of the Famine Relief Charitable District Committee In 1896-1897 and 1899-1900 also, he filled the last named position The distinctive title of "Rao Bahadur" was bestowed these and other upon him for public services. He has a son, Madhava Rio who is also a Pleader (1st grade), at Nagpur and a ho took the B L degree at Morris College

The Honourable Mr MANEKJEE BYRAMJEE DADABHOY, Barat-law, Nagpur, was born in July 1865 He is the second son of Khan Bahadur Byramjee Dadabhoy, JP, late Registrar of Bombay, who, after a long and distinguished career, retired from the Government service in the year 1887. He joined the Middle Temple in 1884, and was called in the Hilary Term, 1887 While in England he was elected member of the Council of the East India Association, a high honour for a young man of his age On his return to India he joined the Bombay Bar where he practised for three years In 1890 he settled in Nagpur While in Bombay he was made a Justice of the Peace and was elected a member of the Bombay Corporation in 1888 in which capacity he rendered useful service Before he came out to India as a member of the Bar, M1 Manekjee read several interesting papers at the East India Association One of these was on "The Administration of India by England " In a long review, he shewed how greatly India had advanced politically, morally, and socially under British rule Mr Manekjee then expressed views which seem to be of special importance in the present circumstances of the country He begged the meeting to believe that the people of India, with the exception of some fanatics and dreamers, had too long enjoyed the blessings of the just, merciful, and enlightened rule of England to wish to change it for any vision of absolute freedom, which would almost certainly end in chronic anarchy or despotism of the ant paper on "The Needed Reforms in the Administration of British India" attracted the notice of Lord Northbrook who wrote that it seemed to him to be written in a very good spirit, and to raise questions well worthy of careful consideration lfter a residence of three years in England when Mr Manckjee returned to Bombay in February 1887, a Home journal in noticing his departure, said of 'While studying in the Middle Temple, he had a very successful career, and during his stay here he distinguished himself by giving various addresses before political and social institutions "

Khan Bahadur Byramjec Dadabhoy had given an afternoon party at his bungalow n Foras Road, Byculla, to Sir Roper Lethbridge, CIE, MP, and Lady Lethbridge, in November 1886, when they were on a visit to India Sir Roper, in returning thanks for the toast of his health and that of Lady Lethbridge spoke of the Khan Bahadur's son, Mr Manekjee, in complimentary terms "The Khan Bahadur has said spoken in the kindest terms of some friendly services we were able to render to his son, Mr Manekjee, in England but this I can say that the eminently successful career of Mr Manekjee in London—and I am delighted to be able to say so in the



The Hon Mr M B DADABHOL

presence of his parents who may justly be proud of him,-has been such as to render quite unnecessary any help and any introductions that his friends could give him I think it might encourage those young gentlemen here (and I hope there are many) who may be contemplating a visit to England to know that Mr Manchjee's marked ability and eloquence, his h gh and independent character, and his amiable disposition have not only obtained for him the friendship of eminent politicians like Lord Harris and Sir John Gorst but have also placed him in the honourable position of an elected member of the Council

Central Provinces and has done good work is a member of the General Committee, and of several sub-Committees on the Central Provinces and Berar Exhibition 1908 having particularly interested



Mr G P Dick

himself in the wood and metal sections where his untiring energy has made itself felt. He has written number of articles, and is the author of Fitch and his Fortunes a novel published by Elliot Stock I ondon in 1896 Mr Dick is a prominent Mason and takes great interest in the affairs of the Craft He is P M Lodge Corinth, Nagpur and Lodge St Andrews Kamptee, PZ of Chapter Mayo, Nagpur, PDC District Grand Lodge Bombay PS in District Grand Chapter Bombay and also belongs to Rose C Chapter 18, Bombay He mar-ried Geraldine, daughter of Francis Newman Esq, Member of the Council of His Excellency the Governor of Ceylon

"He is District Grand Junior Warden of Bombay for 1909 to"

Mr PEARY CHAND DUTT, Barat-Law (Middle Temple), Jubbulpore, Central Provinces Born at Calcutta in the year 1868 and educated at Hare School, in the same city On the completion of his primary education he proceeded to England and studied privately, and at the Middle Temple He was called to

the Bai in 1892. He returned to India in the same year and v is enrolled in Advocate of the High Court, Calcutti, and of the Judicial Commissioner's Court Nigpur, C.P. He has continued ever since to practise in the Central Provinces with his head-quarters at Jubbul pore and sconsidered the leading criminal Counsel in the Central Provinces. He is a member of the Privy Council Bar Association, Jubbulpore. In the year 1908 he commenced to set up in practice for the Privy Council in London where he intends to settle in 1909. He has taken steps to ht himself for this work is before leaving England in 1892 he prictised for a short time in the



Mi P C DUTT

Privy Council under the late Mr. R V Dovne at that time leader of the Privy Council Bar Mr Dutt has interested himself in the Mining Industry and is a member of the Institute of Mining and Geology of India He started prospecting work in 1898 and now owns several mines, working them in conjunction with Burn & Co, Ld, Calcutta, and C McDonald & Co, of Bombay and Scotland He started a Syndicate the Bombay Mining and Prospecting Syndicate in connection with some of the most prominent men in Bombay, with the object of smelting aluminium, in India, having discovered a promising deposit of Brunite or aluminium ore within a mile of Katni in the Jubbulpore District Mr. Dutt has never concerned himself in any agit it on connected with politics, and is a thoroughly loy il subject of the British I mpire. He is married and has two sons

Mr D GHOSE Bar-at-Lav, Jubbulpore Born it Calcutta in the year 1859, and educated at the Hindoo School, and General Assem-Scottish bly's Institution (nov-Church College) Calcutta about a year he was a student in the Sibpore Engineering College In 1880 he vent to England and studied at Lincoln's Inn and University College, London and was called to the Bar in 1883. He returned to India the same very and was carolled an Advocate of the Calcutta High Court where he practised for Gievenes and then transferred his practice to Jubbul pore in the Central Provinces where he has since remained. While at Lincoln's Inn Mr Ghose carried off the Exhibition schol irship of 100 guiners He is a member of the Bar



Mi D Gilosi

Association of Jubbulpore and the Central Provinces

Mr ARTHUR GIFFORD, MINM, Superintendent, Mysore Gold Mine, Mysore State Born in Spain in the year 1873 and educated act as its representative on the Madras Legislative Council He still continues an active member of Council He takes interest in all



Su V C DESIKA CHARRY, KT

public, social and sporting matters and is connected with most of His brother the learned societies graduates elected him a Fellow of the Madras University, and he was also a law Lecturer at the Local College from 1896 to 1900 On the occasion of the visit of the Prince and Princess of Wales to Madras in January 1906, he received the honour of Knighthood by accolade direct from the Royal hands This is a unique honour for an orthodox Brahmin who is unable to cross the ocean to pay homage to his King-Emperor in England in person I ord Ampthill the then Governor of Madras, introduced him to his Royal Highness the Prince of Wales as a strunch 'Congress-wallah' Sir Desika holds mans honormy offices in Madras imong which are the following He is one of the Vice-Presidents of the South Indian Athletic Association and he serves on the Man iging Committee He holds membership of the Executive Committees of the Agri-Horticultural Association the Madras Mahajana Sabha the Madras Athletic Association the Cosmopolitan Club (being the trustee of this body)

and of the Mylapore Club He is also a life trustee of the Victoria Memorial Fund and a member of the Council of the Victoria Technical Institute He acted as Joint-Secretary to the Relief Fund started in 1906 in connection with the disastrous failure of the Banking firm of Arbuthnot & Co He is also one of the Vice-Presidents of the Famine Charitable Relief Fund recently started in Madras He was last year appointed by the Government of Madras as one of the Judges of the Madras Small Cause Court

Dr E M DF SOUZA, WB, CM (ABERD,) Rangoon, Burma, was born in Goa, the Portuguese Province in India, and received his early education there, and in Belgaum On leaving school he studied Medicine in the Grant Medical College Bombay, and after that came to Burma and started practice in Rangoon in 1877

Di de Souza's skill soon brought him to the front, and he was not long in establishing himself secure ly in the land of his adoption. As a pioneer of European methods of medicine among the Burmese he attracted the attention of the Government officials, who strongly idvised



Dr I' M DE SOLZA

him to proceed to Europe This he did in the early cighties studying at the University College I ondon and Aberdeen University from which latter he graduated in 1886. His special subject throughout was Pathology the study of which he has kept up during his frequent visits to Europe, and he is a well-known and welcome visitor in the Laboratories at King's College, London, and Oxford University

For many years Dr de Souza held a seat on the Municipal Committee of Rangoon as a Government nominee, and he also gave great interest to the affairs of the Dufferin Hospital of which Institution he was one of the Consulting Staff. He spends a large part of his time now in England supervising the education of his family, but his interest in Burma is as keen as ever, and his annual visits are welcomed by a large circle of friends and patients. In every sense of the word Dr de Souza may be termed a public man, and a popular one too his kindness is well known and the poor of Rangoon will long remember his unostentatious charity.

Mr GEORGE PARIS DICK, Bar -at-Law Nagpur, Central Pro vinces Born at Clifton, Somersetshire, England, in April 1866 and educated in Germany and then at Dulwich College He is the eldest son of the late Colonel George Thomas Dick, and is a Lord of the Manor of Berrow near Burnham Somerset Mr Dick, in preparation for a forensic career, became the pupil of Sir Charles Mathews, the famous English Advocate, with whom he read in Chambers He was called to the Bar at Middle Temple in May 1889 and joined the Western Circuit and Hant's Sessions holding his first brief at Winchester In the following year he came out to India He joined the Judicial Commis-sioner's Court in the Central Provinces in 1891 and two years later was enrolled an Advocate of the High Court of Fort William in Bengal He has now practised in agpur for 18 years, and also holds the post of Lecturer in liw at the Morris College \agpur Mr Dick is a member of the Nagpur Municipality on which he represents the learned classes of Law, Medicine and Engineering He takes a general interest in public affairs is an appointed member of the Indi Minto Vursing Association for the

energy and resource, which has shown itself in other spheres of action besides law and commerce. In politics he distinguished himself



The Hon'ble Mr HARKISHEN I AI

by carrying to a successful issue the two sessions of the Indian National Congress which were held at Lahore in 1893 and 1900 respectively has been the right hand man of Sardar Dval Singh Manjithia, the well known Sikh Rais, Jagirdar, the Punjan millionaire, who is famous for his munificent charities and public spirit. It was due to Mr. Harkishen Lal that Bradlaugh Hall, Lahore, where the 16th session of the Congress was held, was built In the unrest in the Punjab in 1907 Mr Harkishen I al worked hard to bring about good will between the people and the Government harkishen Lal is Vice-President of the Branch of the Indian Association at Lahore, and one of the trustees of the Tribune a daily newspaper published in the Punjab He is the Chairman of the Board of Trustees of the Sardar Dyal Singh Manjithia Library and College Trust for which the late Sardar left property and cash worth lakhs of rupees He is prominent in the cause of social reform and recommends intermarriage between Indian castes and the abandonment of restrictions on dining together He has much interested himself in education, on which he places great reliance in rusing the people of India to an equality with more idvanced rices. This services to the country have been acknowledged by the Government of India who have honoured him with a sent in the Punjab Legislative Council

Mi HIRJEE NOWROJLL HIRJEL Advocate High Court Upper Burma Mandalay, was born in 1856 at Calcut on the Malbur Coast where his father Nowrojee Hirjee, was in business as a merchant. He was educated at the Christian Brothers' School and the Government School in the same town. He proceeded to Burma about the year 1878, and at first turned his attention to business establish-



Mr II N Hirjii

ing himself as a Brokei at Rangoon Subsequently he carried on business as an Import Merchant About the year 1884 having previously studied the law and passed as an Advocate Mi Hirjee commenced the practice of the legal profession at Rangoon and three years later proceeded to Mandalay where he is at present the senior practising Advocate at the Bar He was selected by the Government as a Municipal Commissioner in 1890 and served till the elective system of representation was introduced in 1896 Since then he has stood for election

on several occusions and has been invariably elected by the European voters of Mandaliy He is the Secretary of the Mandaliy Bar Society and is a member of the Committee of Inspection of the I eper Asylum, appointed by Government Mr Hirjee has taken a leading part in all public movements and continues his interest in these to the present day, a recent appointment being that of President of the Committee for the relief of distressed persons when plague was rampant in Mandalay of which Committee he is still a member. He has practically settled down in Burma which he has made his home. His grandfither Mancekjee Hirjee rose to be the Prime Minister of the Raja of Coorg before that State was unnexed by the British His grandfather lost his life by being murdered on suspicion of having assisted the British just before the war with coorg and his son Nowrojee Hirjee then in infant who had lost his inheritance by the war, was maintrined and assisted by the British Government till he attrined his majority Mr Hirjce and his family are still respected in Calicut as they are in Burma although for thirty years he has been absent from his native place

Mr MANLCKJEE NOWROJEE HIRJEE Advocate, Mandalay, is



Mr M N Hirjer

at the Bristol Grammar School, Devon County School, and at the Camborne School of Mines On completing his education he went to South America, where he was engaged for some years as Assistant



Mr A GIFFORD

on the mines at that time under the management of his brother In 1900, he was taken into the service of the Mysore Mines and came out to India with the appointment of Assistant Superintendent In this capacity he worked till 1904 when he was appointed to his present position of Superintendent Mr Gifford is a good sportsman, and while at school was noted as a runner, carrying off several cups He has also won prizes at Tennis and Billiards He is a member of the Institute of Mining and Metallurgy, London

Mr HENRY JOHN GIFFORD, Superintendent of the Champion Reef Mine, Kolar Gold Fields, Mysore State Born in South Africa in the year 1864 at the Mines of the Cape Copper Co, where his father was Assistant Manager He went to England in 1869, and five years later to Spain, where he resided for two years on mines managed by his father Returning to England he was educated at Aske's Schools, of the City Guilds, Hatcham, London, where

he gained a scholarship, and later took special courses for Chemistry and Engineering

He gained practical experience in mines in Cornwall, and then in Italy and on the Continent, first at the Ponte di Nossa Zinc Mines for six months, then for two years at the Pestarena Gold Mine, and later for three years as local Manager of the Val Toppa Mine and Works, belonging to the Pestarena Company

He went to South America in 1888, having been appointed Superintendent of the Ouro Preto Gold Mines of Brazil

He held this post for sixteen years, and during that time was also Consulting Engineer to other mines under the management of Messrs John Taylor & Sons, of I ondon, for whom he also inspected and reported on various mining properties

For the last two years he has held his present appointment as Superintendent of the Champion



Mi H J GIFFORD

Reef Gold Mining Co of India, Ld, at the Kolar Gold Fields, Mysore

He is a member of the Institute of Mining and Metallurgy and member of the Institute of Mining Engineers England

The Hon'ble Mr HARKISHEN LAL, Bar-at-Law, Banker, Lahore is a graduate of the Punjab University where he greatly distinguished

himiself After taking his degree he was sent to England as a State scholar to continue his studies at the Cambridge University, where he again graduated, passing all the Examinations for the Bar, but was not at this time called Mr Harkishen Lal returned to India in 1891 and was appointed to the post of Assistant Professor of Mathematics and Economics at the Government College, I ahore The position, however, did not accord with his energetic disposition He decided therefore to return to the legal profession and to win his diploma he returned to England where in January, 1802 he was called to the Bar Again coming out to India he settled at Deia Ismail Khan in the North-Western Frontier Prov ince and commenced practice He found however, that there was not sufficient scope for him in this out of the way and backy ard centre and he removed to Lahore the capital of the Punjab in 1893 Here he found a congenial field and added to his professional avocations the appointment of Examiner in various subjects in the Arts and Law faculties While practising law he came to the front and obtained a wide practice, but the ground of the law courts did not satisfy his natural bent towards a wide field for his activities He had already while a practising Counsel, worked in connection with the Punjab Mutual Hindu Family Relief Fund and also organized and started the Punjab National Bank, Ltd, the Bharat Insurance Company, Ltd, the Punjab Publishing and Stationery Company, Ltd, and the Lahore Spinning and Weaving Mills, Ltd These enterprises proved a great tax upon his time, and the work in connection therewith increasing he was required by his co-workers to devote his whole attention to the concerns with which he was connected Accordingly in the year 1800 he definitely relinquished the practice of his profession and entered the commercial world His achievements in this field have been brilliant, and though he has been hampered by less enlightened people in his efforts for the public good in his native Province, he has successfully encountered and overcome the obstacles placed in his way Harkishen Lal is a man of great

in Berlin and a member of the Central Provinces and Berai Maring Association. He is also a member of the Maring and Geological In titute of India

Mi G KRISHNAMACHARIAR
IA BI Government Pleader and



Mr. C. KRISHNAMACHALIM

Public Prosecutor, Hyderabad Born October 1867 at Maunugudi Public Tanjore District, Madras Presidency and educated at the Native High School, Wumargudi, St. Joseph's College, Trichinopoly, and Presidency College Madras. He took his B. \ degree from St Joseph's College and BL degree from the Presidency College For one year he studied law with Mr Eardley Norton at Madras He was enrolled a Vakil of the High Court in March 1890 and opened practice at Hyderabad both in II H the Nizam's and the British Courts In 1904 he received the appointment of Government Pleader and Public Prosecutor from Sir David Barr, then British Resident of Hyderabad He also uppears for H H the Nizam in all important cases Mr Krishnamachariar is Secretary to the People's Association, Secunderabad, and representative of the Indian National Congress at Secunderabad He has been President of the Bar Association in Hyderabad Presidency for the past two years He also has the honour to be a member of His Highness

the Nizim' Legislative Council He is a member of the Nizim Club. He appeared for H. H. The Nizim's Government in the Mint Commission which eat to inquire into the charge of an to the Mint mister. He cannot offer dominate of the Central Relet Committee of Hyderabad.

Mr. C. KKISHNA MURTI Advo. cate Chief Court of My ore at Pure dore viciborn at Pun dore on the 15th October 15th, 11 conflithers a firt Hadu Iv Pundit of the late Ad alst Court in Mysore from its constitution in 18, at least viscoplaced by the Jude d Comm's oner n My ore bout the year 1866. Mr. Kr. hus Murtine is educated at the Welley in Miss on High School at Bam Jore His school circuit is brillent to having carried on the first prize in almost all his classes. He virial mitted is in Advocate of the Chief. Court of Mysore on the 5th Lebruary 1886. By his imable disposition and leen commonsense he has contine contidence of the liti-



Mr C KRISHNA MURTI

gant public, so much so that in almost all cases of importance he is engaged by one side or the other. He is a Municipal Councillor of moderate views, and takes much interest in all matters concerning the public. Mr. J. KRISHNA PAL, r. v., Parri ter et-l. c. m. born in Jan ambot. Kolar Detrict My ore Province on the 1th January 1803. He come of the Photon and repetable family the member of which revolves the detriction.



Mr. J. KEISH V.KM

both in Mysore and Madris His meestors held very ligh offices in the early Light estunder Colonel Read and Sr Thomas Munro a distinguished Governor of Midras In recognition of emment in https:// services rendered to the British by h's great-grandfather Krishna Rau Sr Thomas Munro appointed the sud Krishna Rui is his Chief Native Assist int in the Burumahal Ceded and other Districts and after his death in 1800 got back for his eldest son Venkata Rau several In im villages in the Misore Territory that had belonged to the family and had been confiscated by Tippu Sultan and give his youngest son Ramachandra Rau the Head Sheristerdary of the Board of Revenue, Madras the same time two villages in the Madras Presidency were also grant ed as Jaghirs in the name of the said Ramachandra Rau, for the valuable help rendered by the family to the British, during the troublous days of their encounters with the 'Tiger of Mysore "

the son of a merchant of Calicut on the Malabar Coast of India where he was born He was educated at Malabar, and settled in Burma about the year 1887 He at first engaged in mercantile pursuits at Rangoon and for a time was employed as Superintendent in charge of Saw Mills He also carried on business as a Contractor During a portion of this period he studied Law, and passing his examination at Rangoon was enrolled as an Advocate on 6th July 1889 Since that time he has practised in the Courts of Upper Burma establishing his residence at Mandalay where he has a large and flourishing practice

Mr ALEXINDER HODGEN Chief Mechanical Engineer, Government Harness and Saddle Factory Cawnpore (retired) was born in 1864 and educated at Calcutta His wife is the daughter of Mr W G Howatson, Manager and Chief Accountant, Bank of Upper India Having served five years' apprenticeship in Calcutta Mr Hodgen went to sea in the employ of the B I S N Co, with whom he remained six years, afterwards joining the tramp steamer Kentiggen in which he served seven years He was two years in the Ceylon Steam Ship Company, serving on the Lady Havelock In each case he served as Chief Engineer In 1901 hc joined the Government Harness and Saddle Factory in Cavinpore as Mechanical Engineer, subsequently rising to Chief Engineer Mi Hodgen is one of the examiners of the Board of Examining Engineers for the Boiler Act He has nov retired from Government service to enter commerce

Mr KAIKHOSRU HORMUS-JEE JUDGE, BA, LLB, of the Bombay University, and a Solicitor of the High Court of Judicature at Bombay, was born in the year 1871, and educated at St Xavier's College in the same town. He took his BA degree at the age of twenty, his LLB at the age of twenty three, and six months later passed out as a solicitor of the High Court, being articled to Messrs I ittle & Company, Government Solicitors, Bombay He was one of the leading speakers at the College Debating

Society, and was the Vice-President of the College Literary Union started by the late Revd Father Bochum, s.j. During the period of his articleship, he was a contributor to the Times of India, and contributed to that paper many literary, historical and descriptive



Mi K H Jungr

articles He left Bombay in 1898 and settled in Secunderabad, where he has continued to practise ever since, and where he commands a large and luciative practice. Mr k H Judge is an all round sportsman, being a good encketer, a good tennis player, a good rider and a good shot. He represented the Parsees in several representative cricket-matches, and played in the famous Paisee Cricket Team against the 'Presidency' at Poona in the year 1894. He is the second son of Mr. Hormusji Dadabhoy, retired judge of the Small Cause Court of Bombay.

Mr JULIUS KELLERSCHON, Resident Engineer for the Carnegie Steel Company of Pittsburg, Pa, USA, Nagpur Bornin San Antonio, Texas, USA, in the year 1858 At the age of 11 years sent to the High School at Coblenz on the Rhine, Germany, and later to the College of Mines at Berlin In 1882 returned to the United States and as special student spent several months at the Houghton School of Mines, Michi-

gan, taking up field and mine surveying Then proceeded to surveying Crystal Fall, Michigan, working chemist and surveyor for several Mining Companies, and partly also on his own account that centre of iron ore product on In 1893 went to Chiengo, Illinois, and engaged in the manufacture of an explosive made of ammenium nitrate, which was used by Angus & G ndele, a firm of contractors for a sect on of excavations on the Ch eago Drainage Canal In 1894 he took charge of the Laboratory at \egaunee, Michigan, for Corrigan McKinney & Co ore brokers at Cleveland, and operating a number of mines in the Lake Super or District. In 1896 he was engaged by the Ohver Iron Mining Compine the Mining Department of the Cornegie Steel Company, at first at Ironwood, Michigan later at ther offices in Duluth Minnesota Which at the latter place he was mostly employed in reporting on properties in Ontario British Columbia Cuba, Washington Bounday District and other parts of the



Mi J KELLLRSCHON

United States In 1906 he was sent to India to represent the Company as Resident Engineer and develop mining properties acquired through him, principally in the Central Provinces Mr Kellerschon is a member of the Student's Club, Rheno-Guestphalia

lal "or, "The spoilt child," a novel dealing with social matters, which created a great sensation at the time of its issue from the Press,



Mr J C MITTRY

being the first novel in the Bengali linguage He v as also a well-known contributor to the Calcutta Review

Mr B NAGAPPA, Barnster-at-Law, Idvocate of the High Court of Madras and of the Chief Court of Mysore was born in Bangalore m April 1877, educated at the London Mission High School, passed first class in the Matriculation Examination of the Madras University in December 1891, and won a scholarship poined the Central College from there he passed a Langunge Branch of the B \ Degree Lyamination in 1896, having won a scholarship after passing the F. A. Examination in 1893 with credit In 1899 he entered Gray's Inn and under distinguished tuition read for the Bar He was called to the Bar in 1901 In the Final Examination for call to the English Bar, he was placed in the first class and was awarded a Certificate of Honour from the Council of Legal Education He won golden opinions from several eminent jurists Among those y ho have commented frouribly upon his exceptional ability are Mr. Montague Lush, K.C.,

who, remarking on his legal attainments, states "He possesses exceptional ability" Dr A Underhill, the Reader of the Law of Real and Personal Property, states "In the recent Final Examination he passed with the highest credit, being placed with only four others in the first class or Honours list" Mr James Scully, the Reader in Equity, states 'He has distinguished himself by great diligence and intelligence as a student and the possess on of these qualities in a high degree he has further proved at the recent Final Examination in which he obtained the highest marks in Equity, and succeeded in getting in all subjects the high honour of a first class" Dr W Blake Odgers, KC states "To get a certificate of honour means a man has legal acumen and



Mr B NACAPPA

recuracy" Mr J W Macarthy, his tutor, states "He has a keen comprehension of legal points and there is great clearness and force in his arguments" Dr J Cawley Blake states "Speaking as one who knows the standard required for this I can say that it is exceptionally high (ciz, obtaining first class) and very few men attain it A host of other equally striking remarks were made by all the Readers and Assistant Readers to the Inns

of Court, and the Bachelors of his Inn granted him a special certificate for possessing "exceptional abilities" and awarded him a prize of £50

After his return to India in 1901 Mr Nagappa was enrolled as an Advocate, High Court, Madras, and worked with the Honourable Mr J P Wallis, then Advocate-General and now a Judge of the High Court, Madras, and has rapidly obtained a good practice in Mysore and its surrounding districts He was nominated to the Mysore Legislative Council in 1907, and has been a strenuous worker ever since, and is one of the non-official members who received the special thanks of H H the Maharajah of Mysore in passing the contentious "Village Officers' Bill' He has been largely instrumental in founding, and is the Vice-President of, an Association known as the ''Vokkalıgar Sangha,'' whose object is to spread general education among the peasants, and the improvements of their social and intellectual status. He presided at the second conference opened by the Maharajah in his Capital in 1907

Mr Nagappa is a splendid type of the effect of Western education upon an Indian of superior intellectual abilities and his keen interest in the industrial development of his country is a proof of the good use to which he is applying his cosm opolitan educationladvantages

Rao Bahadur VASUDEO RAMKRISHNA PANDIT, MA (Cantab), Nagpur Born at Burhan-pur in the year 1874 Educated at the Government High School and College, Jubbulpore, and Hislop College, Nagpur He took the BA degree at the Calcutta University in 1894 and afterwards proceeded to England, taking his degree in the Law Tripos of 1808 at Cambridge In the same year he was called to the Bar at the Middle Temple He held the Ouseley Scholarship for Oriental Languages from the Imperial Institute for two years He returned to India in 1898 and ever since that date has practised as an Advocate in the Judicial Commissioner's Court, Central Provinces On several occi

Mr J Krishna Rau graduated in Arts in March 1889 from the Madras Christian College, where he was a Tutor in History t.ll 1894 Having passed the First Grade Pleadership Examination of the Madras High Court in March 1894, he practised as an Advocate in Bangalore till 1899 when he went to England He was called to the English Bar from Gray's Inn, London, on 27th January 1902, and has ever since been practising in the Madras High Court He has visited several other European countries, the United States of America, and the Domin on of Canada, and has thereby acquired a considerable knowledge of the West

Mr JOHN CHARLES SKIL LERN LAWRANCE, B1, LLB of Bangalore in Mysore, Advocate, Public Prosecutor and Notary Public is an instance of how a hardworking lawyer can succeed in life. By dint of perseverance Mr Lawrance has risen to the position he at present occupies. He was born at Bellary in the Ceded Districts and



Mr JOHN C S LAWRANCE

educated at first in the Provincial School there. His parents having gone to Bangalore and settled there, he entered the Central College (then High School) where he was the first graduate in arts, heading the list for

the whole of the Mysore Province He next graduated in Law and then practised as a pleader for a short time, when Sir James Gordon, the then Judicial Commissioner appointed him a Munsiff, and afterwards a Magistrate to the city of But not caring for the service he retired and went back to the Bar where he has done some good work, and has been able to educate all his four children, one girl and three boys at the English Univer-His father, the late Mr John Lawrance was the first Public Prosecutor appointed under the new Criminal Procedure Code of 1864 in the Mysore Province, and the present Mr I awrance succeeded to the office in 1886, and was made a Notary Public in 1892 He edited the In-dian Evidence Act with commen-taries in Kanarese, and the book was quickly sold in the Province His eldest son is a Civil Engineer cducated at Owen's College, Manchester His second son who gradnated at Cambridge, is a practising Barrister of the Inner Temple, and his third son is a medical practi-tioner, also educated at Owen's College

Mr HENRY MILLARD LUT-Government Prosecutor and Advocate, Mandalay Upper Burma, was porn at Moulmein, Lower Burma in 1860, and there received his education. He was educated for the legal profession and studied for the local Bar, passing out in 1884 For a short time he practised in the cities of Moulmein and Rangoon, but in the year 1889 he transferred his practice to Mandalay, which has been the sphere of his activities ever since The appointment of Government Prosecutor was established in 1891, and Mr Lutter was the first holder of the position, which includes also the appointment of Government Advocate in Upper In accepting Government service in these capacities, Mr Lutter has not relinquished his private practice but continues to carry on his profession as an Advocate He is also interested in public affairs and is a member of the Municipal Committee of Mandalay He has taken up volunteering and holds a commission as Captain of

the Upper Burma Volunteer Rifles The Masonic craft also has a mem ber in Mr Lutter, who has passed a District Grand Junior Warden in the Burma District, and is also P P Z of the Chapter Mr Lutter has



Mr H M LUTTER

also devoted attention to literature and is the author of the "Manual of Buddhist Law" and "Handbook on the Law of Gambling" for Burma

JYOTIS CHANDRA WITTRA, Bar -at-Law, Nagpur, Central Provinces Born at Calcutta in the year 1867 and educated at the Oriental Seminary and Presidency College He pioceeded to England in 1884 and studied at Middle Temple, and in 1889 was called to the Bar In the same year he returned to India and established himself in practice at Nagpur He carried off the Studentship of £100 for Roman Law and several other minor prizes Mr Mittra is a grand-son of the late Mr Peary Chand Mittra, the well-known Bengali author and formerly Member of the Bengal Legislative Council, who was the author of "Ramaranjika," a novel dealing with female edu-cation, "Abhedi" a spiritual novel, "Adhyatmika," a novel of general moral purpose, and other works His most famous literary effort, however, was "Alaler Gharer Duwhich he secured as an Examiner in the Deputy Accountant-General's Office He held this post for five years when he was promoted to



Mr Krishna kao Phatak

Auditor on increased pay Meanwhile he had studied law, and at the end of 1876 he passed the Local Pleader Examination In the following year he resigned the service and commenced practice as a Pleader, which he continues to the present day having established himself as one of the leaders of the Nagpur Bar Mr Phatak has a literary turn in matters relating to the law, and has published the Central Provinces Law Report Digest in 2 Volumes, and has annotated in Marathi the Central Provinces Tenancy Act which has run through five editions He has also published the Central Provinces Boiler Inspection Act with rules Outside his profession he has busied himself with industrial matters and owns a Flour and Saw Mill at Nagpur, also a small Cutlery Factory He is also Managing Director of the Palgaon Manufacturing Company, a post he has held since 1889 The Company has had a successful career for which Mr Phatak is greatly res-In recognition of his ponsible services the shareholders of the Company have formed a scholarship in his honour named "The Krishna Rao Phatak Scholarship" to be held by a student at the Victoria Jubilee Technical Institute at Bombay Mr

Phatak has also devoted attention to public affairs, he is a Municipal Commissioner for Nagpur, and a member of the Committee of the Niell City High School and of the Committee of the R B Bapurao Patwardhan High School, it Sectabaldi, Nagpur He was selected as one of the Secretaries to the C P and Berar Exhibition held at Nagpur in 1908

Mr SURYAKANTA RAMDAS, BA (Cantab), Barrister-it-Law, Agpur, Central Provinces Born at Bombay in the year 1879. I Cucated at Fort High School and St Naver's College in his native city. Went to England in 1899 to Christ College, Cambridge, where he took his degree in 1903. Entered at Middle Temple where he was called to the Bar in the same year. On being called he returned to India and commenced practice at Nagpur where his father is also practising. Mr. Suryakanta is a nephew of Mr.



Mr. S RAMDAS

Karsondas Chabildas, late Presidency Magistrate of Bombay, and grandson of Mr Chabildas Laloobhoy, senior partner of Messrs James Mackintosh & Co, and a well-known citizen of Bombay

Mr M C RANGIENGAR, Advocate and Member of the Mysore Legislative Council, Mysore, born in 1861 Graduated from the Central College, Bangalore in 1882 Was enrolled an Advocate of the Chief Court of Mysore in 1887 On the



Mr M C RANCIENCAR

establishment of the Mysore Legis lative Council in 1907, was one of the first non-official Members appointed

Mr THOMAS RICHARDS Superintendent, Nundydroog Mine, and Chairman of Messrs John Taylor & Sons' Committee on the Kolar Gold Field Born at Tayistock Devonshire, England, in the year 1844 and educated in his native town. He left school at the age of sixteen and worked as a miner at the Devon Great Consolidated Copper Mines near Tavisfock, where two years later he was made an assistant agent He remained with this Company altogether eight years In 1868, when he was twenty-four years of age he proceeded to Chili, South America, to supervise the erection of concentration plant for the treatment of copper ores, which occupied about 12 months remained in South America seven-teen and half years, during which period he had charge as manager of the Panulcillo copper mines for the Copper years, and of Mines owned by Mr Charles Lambert, the well-known copper

sions he has officiated as Government Advocate In 1900 he worked hard as one of the two Secretaries to the Indian Famine Relief Charitable Fund, C P branch, and for the past eight years he has been a member of the Nagpur District Council, and from 1905 Vice-Chairman to the same body In 1904 he was appointed a Fellow of the Allahabad University and is a member of the Faculnes of Arts and I aw, and member of the Syndicate of the same University He has also been an Examiner for the degree of LLB, Allahabad University, and for several years examined candidates for the



Rio Bihadui V R PANDIT

Law Certificate (Pleadership) Examination, conducted by the High Court of the Central Provinces He is a member of the Royal Asiatic Society, and was Sccretary to Queen Victoria's Memorial Fund for the Central Provinces January 1907 for his public services he received the distinction of the Kaiser-i-Hind medal and title of Rao Bahadur He is now Secretary to the Provincial Congress Committee, as constituted in accordance with the provisions of the constitution framed at Allahabad in April 1908 He was an important witness examined by the Royal Commission on Decentralization The Rao Bahadur has a literary

turn and translated the third verse of the National Anthem into Mahratti at the time of Queen Victoria's Jubilee He comes of an old and distinguished family who were public servants and revenue collectors under the old native regime, and thereafter held important posts under the Brit sh Administration. His grandfather rendered valuable services to the British Government during the Indian Mutiny, and his father Rao Bahadur Ramkrishna Rao Pandit is at present the Deputy Commis sioner of the Betul District of the Central Provinces

DR NASARWANJI NOWROJI PARAKH, I r P (Glasgow), I s A (Lond), Physician and Surgeon Dr Parakh comes of an old-established Parsec family and was born at Surat in the Bombay Presidency obtained his first education at the Grant Medical College, Bombay Being left without means after his father's death, he had to work hard, and he adopted the theatrical profession in order to support himself during his course of studies His success in the theatrical line won him a name still remembered in Bombay and Calcutta and other parts of India, and brought him a few thousand rupees with which he retired from the stage at Karachi in the year 1880. He then procceded to England and Scotland to complete his medical studies, and he gained diplomas in both countries In 1882 he returned to India and practised with much success for two years in Bombay. but in 1884 decided to settle at Rangoon, Burma, where he was not long in building up a practice which subsequently became a very flourishing one He has, on several occasions, held the post of examining physician in midwifery and sicknursing to the Dufferin Hospital at Rangoon Dr Parakh's family is well known in the Bombay Presidency | His father was the Parsee gentleman to be appointed Deputy Collector and Magistrate in the Presidency, and his uncle was Surgeon-Major in the Indian Medical Service and had the honour of being the first Parsee M D He saw active service in the Indian Mutiny, and is now

Drretired and living in London Parakh's brother is a retired Lieutenant Colonel and was the first Parsee to receive the honour of being appointed physician to the Sir Jamsetjee Jeejeebhoy Hospital, and subsequently, before his retirement, he was appointed surgeon to the Goculdas Hospital Dr Parakh's daughter has also distinguished her self She was placed first on the list at the Entrance Examination of the Calcutta University, and two years later took the F A degree at the same University in the first class She passed her B A degree and at the end of a further two years took her M A degree Dr Parakh is a



Dr N N PARAKH

prominent Freemason, and holds the position of Past Deputy District Grand Master of Burma During the Coronation he held the past rank of Grand Descon of England

Mr KRISHNA RAO PHATAK, Pleader, High Court, Central Provinces Born at Ratnagiri, Bombay Presidency, February 26, 1850 Educated at the Marathi 2nd School and the High School in his native town Passed the entrance examination of the Bombay University in November 1870, and joined the Elphinstone College, but for want of means could not take an extended course at that institution He left in August 1871 and went to Nagpur in search of employment,

Silvible Enjoyed a pension of Rs. 48 000 per annum from the British Government. His son Nana Gampat. Rao



Mr C I SUBHEDAR

Sahib and grandson Rao Sahib Lakshman Rao Subhedar, also received pensions from the British Government to enable them to maintain the dignity and position of the family. The title of Rao Sahib is hereditary in the family Both the father and grandfather of Mr Ganpat Rao rendered valuable services to the British Government as Honorary Magistrate and member of the Municipal Boards On the occas on of the Imper al Assemblege at Delhi in 1877, Rao Lakshman Rao Sahib, the father of Mr Ganpat Rao, was granted a certificate for loyalty and good services

The Hon PUNDIT SUNDFR LAL Rai Bahadur CIE Advocate, of Allahabad, was born in 1857, and is a Nagar Brahmin by caste. He was educated at the Muir Cential College, Allahabad, and passed the B A Framination of the University of Calcutta held in December 1880 also the examination prescribed for admission as Vakil of the N-W P High Court, held in January 1880 He was enrolled as a Vakil of the N-W P High Court on 21st December 1880, and practised in the Courts of the Allahabad district for two years, and jo ned the Bar of the Allahabad High Court early in 1883

He quickly acquired a large and lucrative practice and in 1888 vas appointed a member of the Council of Law Reporting of the N-W P. High Court. In 1803 he was appointed a member of the Board of that Court to represent the Value and three veries later he vas one of the first batch of Value enrolled as Advocates of the Court. In December 1888 he had been appointed a Fellow of the University of Allahabid, and on the reconstitution of the University Senate under the Indian Universities Act of 1904 he was reappointed. He is a member



Hon PUNDIT SUNDELLAI

of the Faculties of Arts and Iaw, and has been a member of the Syndicate since March 1895. In January 1906 he was appointed Vice-Chancellor of the University, and acted as such up to the end of 1907. Was elected to represent the University in the Legislative Council of the United Provinces in November 1904, was re-elected in December 1906, and again on the 12th March 1909.

The Hon Pundit Sunderlal has always taken a keen and active interest in the work of the University, and in education generally and the Lieutenant-Governor of the United Provinces (Sir J P Hewett) in his Convocation Address in November 1908, spoke in the highest terms of the work he had done in the cause of education. He is one of the Secretaries

of the MacDonnel University Boarding House at Allahabad and to gether with the Hon Pundit Michan Mohan Mahuya tool a prominent part in the collection of funds for building the said institution. He is also President of the Allahabad I durational Society.

Although he has a large practice and holds a leading position at the Allahabad Bar, the Pundit has found time to devote to public matters and is a member of several Societies—imong others of the Royal Society of Arts Manufactures and Science London He owns one of the largest private libraries in the United Provinces He was mode a Ru Bahadur in 1005 and created C. I. E. in the following year. He took a prominent part in the establishment of the University School of Line In May 1909 he appointed to act is first additional Judicial Commissioner of Oudh and a few days later on is the full Judicial Commissioner of that Court for a latter over five months during the absence on leave of Mr Chamier and Mr Evans

Mr HAROLD CHAMIER-IRIPP Birrister-at-Lin Secur-



Mi H CHAMIER PEPE

derabad born at Combatone in the verr 1879 and educated at Bishop Cotton School, Bangalore and St George's Grammar School Hyderabad, (Deccan), and the Nizam smelter of England for 12 years He subsequently spent four and a half years in Venezuela, first in charge of the copper mines and smelting works, and then as general agent of the Quebrada Rulway Lands & Copper Company, Ltd left South America at the end of 1800 and for the next four years was employed in making trips of inspection to gold and silver Mines in the United States and Mexico For about 9 months of this period he managed a gold and silver mining property at Bacis in the State of Durango Mexico He was appointed Superintendent of the Nundydroog Mines on the Kolar Gold Lield in Mr Richards studied August 1804 chemistry mineralogy and surveying in the even ng classes of the Miners Association of Devon and Cornwall and took a special course of assaying under Mr Richard Pearce at Truro, Cornwall He has been a Member of the Institution of Civil Engineers, I ondon, since January 11th 1887, a Member of the American Institute of Mining Engineers since 7802 and a Vember of the Institute



Mr THOMAS RICHARDS

of Mining and Metallurgy, London from its inception. He takes a keen interest in sport, and tennis is his chief out-door recreation. Mi Richards is a prominent Free mason, and at present holds the position of Grand Superintendent of

Southern India under the Scottish Constitution He was one of the founders of the I ocal Lodge "Southern Cross" of which he has been Worshipful Waster on two occasions

Dr SAN C PO MD, Municipal Commissioner Station Road Bas sein, Burma is by nationality a Karen and was born at Bassein on the 4th October 1870 He was edu



Dr SAN L Po

cated at the American Baptist Mission School Bassein and thereafter proceeded to America to continue his studies where he pursued a four years academic literary course then took up Medicine at the Albany Medical College of the Union University of the State of New York At the expiry of his University course he took an eight-months post-graduate course in New York In 1893-4 he visited the World's Fair at Chicago and other centres of interest in the States, and also toured Canada, England and Scotland He returned to Burma in 1894, and in the following year joined the Burma Medical Service as Resident Medical Officer of the Dassem Hospital where he remained for about five years He then served as Civil Surgeon in two Districts, but in 1903 resigned the service and retired to practise at Bassein at the wish of the residents of that town

In connection with the private practice he established at Bassein he has started his own druggist and medical hall, importing all medical requirements for his own use as well as for the supply of the public generally. This establishment is on a sound financial basis and has every prospect of increasing greatly in importance Dr San C Po is proprietor of the "Karen National Yews" a weekly publica-This is the only secular paper issued in Burma and has the largest circulation of all the Karen newspapers It has been in existence for 20 years Dr San C Po was the first medical man outside of the service to be appointed plague ino culator in Burma This was done at the wish of the people of Bassein

GINPIT RIO LIKSH-Mr NINSUBHEDIR By Bar-at-Nagpur Central Provinces I aw Born at Saugor C P in April and educated at Saugor 1876 High School, Rajkumar College Nowgong, Bundelkhand and Muir Central College, Allahabad where took his B \ degree in 1898 He then proceeded to England and entered Lincoln's Inn where he was called to the Bar in 1902 He was presented to His Majesty King Edward VII, at a I evee held in St James' Palace on 21st April 1902 In the same year he returned to India and was en rolled as an Advocate of the High Court of Judicature, Bombay, and then as an Advocate of the Judicial Commissioner's Court Central Provinces He practised for some time at Nagpur and entered the Provincial Judicial Service as Subord nate Judge, Nagpur, in 1903. He re s gned the appointment in 1907 and has rejoined the Bar at Nagpur where he still continues to practise In the famine of 1908 Mr Ganpat Rao was the Honorary Secretary of the Provincial Branch of the Indian Famine Charitable Relief Fund Mr Ganpat Rao belongs to the well-known Subhedar family of Saugor and is a great-grandson of Rao Vinayak Rao Sahib, who was the Prime Minister and Commanderin-Chief of the Mahratta rulers of the State of Saugor till the territory was ceded to the British Govern ment in 1818 Rao Vinayak Rao

Educational.

BALDWIN BOYS' HIGH SCHOOL, Bang dore the largest Protestant boarding school in South India was founded in 1880 by the Rev J E Robinson now Bishop Robinson. The first Principal was the Rev M B Kirk At the time of founding it was known as the "Methodist Day School" and admitted pupils of both seves and



Rev P V ROBERTS

was housed in iented premises On the appointment of the Rev Iia A Richards in 1881 as Principal friends in America were interested in the wolk, and the Hon'ble John Baldwin of Berea, Ohio, U S A, was induced to give Rs 15,000 Property was acquired and the school was named after him The school soon gained the confidence of the public and it began to prosper

and with the vd of Government through Mr Girdlestone British Resident the first building was creeted and named Richards Hall because of the self-sicrificing efforts of Mr Richards This building was formally opened on the 3rd October 1888, with Sir Hurry Prendergist British Resident, in the chur-Rev W L King, DD was then Principal The Rev W H Hollister still further populatised the school by travelling all over South India and placing before parents the advantages of a good school with a vell-managed Boarding Depirtment During the Residentship of the late Sir Oliver St John the grant-in- ud was withdrawn, so as to enable the Government to try its new scheme of having one central nided school For six years the school lived without any aid from Government, but was lovally supported by the public, who had the utmost confidence n the then Principal, the late Rev T R Toussaint who was appointed in 1802 Sir William Lee-

Warner revoked the plan of his predecessor, 1estored the grantin-aid, and gave a liberal building grant towards the cost of electing i science laboritory The Lee-Warner Laboratory is to-day one of the best equipped High School laboratories in India On the of Mrdeath Toussaint in 1899 the management

was much put about for a surtable m in to succeed him, and the school pissed under a cloud for four veirs. In 1905, i nev policy wis idopted The present Principal was placed in charge the girls were formed into a separate department of their own and the cloud lifted. The dumm of the school rallied round it ind subscribed towards the erection of a Memorial Dormitory, known as the Toussaint Memorial. The corner stone was placed by Sir Donald Robertson who in miny ways did much to resuscitate the institution. In 1904 the "Toussant Memorial" was opened by Sir James Bourdillon who gave the school a play ground on the north side of its compound This is now known as the Bourdillon Play ground' The next year new premises were acquired on the south, and in March 1907 the Hon'ble Mr Stuart Fraser laid the corner of a new structure named after him Fraser Hall'' In November 1907 the Hon'ble Mr



TRASTI HALL " BALDWIN HIGH SCHOOL BANCALOLI

College. Hyderabad From the latter institution he militarilated to the Madris University tvo veirs he pursued a course of reading at the Medical School Hyderabad (Decean) proceed by to England at the expire of this period in 1800. He entered it Middle Temple and after the usual course of study was called to the Bor on the 25th Linuxy 1005. He returned to Ind a for the purpo e of pursuing his profesion and commenced practice at Secunderabad where he settled and become an mportant member of the local Bar-His profe sional car agements have ncluded many important cases. It v is Mr. Tripp who defended I seutenant G. R. Cookson at a General Court Mart al held n 10.7 n place of the famous Advocate Mr Lardley Norton thow is univaid ably absent and who it was or a pally retended should have conducted the case Mr Irpp Geen sportsman and tales parteular interest in Livin tenn's and shoot ing. He s in excellent imateur actor and has taken part in many entert coments and the arreals. He is a member of the Mison e Crift and much interested in all Missing

matters. At present holding the position of Worsh pful Master of Lodge Decem No. 1444. For a short time he acted as Vice President of the Secunderabid Young Men's Christian Association. Mr. Ir pp. 5. 486 a Member of the Bar of H. H. The Norm's High Court at Hyderabid vibere all cases are conducted in the Urdu Linguige He sam excellent linguist read mand speaking Link Lindu and Lehmu and speaking Link Lindu.

Mr. TREDIRICK WILL DER CHARITS IRCINITY Advocate of the Chaf Court Bas s n Born in the year 1870 and educated it kang on College which s unlitted with the Calcutta University of which University Mr. Irutven - (P.A. Hevis enrolled to Advecte of the late Indicateour fover Burma and Recorder's Court Ran, oon in the year 1892 and in the same year become to Basic normal commenced to practis in that form. On the formation of the Chief Court in 1900 Mr. Irut en va emolled in Advocate of that Court He imember of 1 ' Company of the Rincoon Volunteer Rifle and is considered a crack shot. He was for two years the best marksman in the Batt Lon. At the Coronation



Mr. I. V. C. Trerwin

of King I dv ud VII hex is one of the Volunteers selected to attend the celebration a school paper edited by the gris-The debaliful elemente of Bing dore where the school is structed s extremely healthy for the children all the year round. Domestic training is not neglected, and the



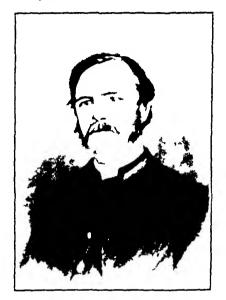
Miss L. M. Benther Principal Bardwin Girls High School Bangarori

cookery class is a favourite one Miss Elizabeth M Benthien BSC Principal, Baldwin Guls School was born in England and taken to America at the age of thre where she was educated at public and privite schools Miss Benthien received ter cher's truning at the State Normal University and other training colleges She is trained in I itin French and German and has special training in school music, drawing and elocution She griduated from Chicago Training School in 1895 and from Dixon College in 1903, and was a student at the University of Chicago for two years Miss Benthien has twenty five years of teaching experience, eighteen in America and seven in India, in Kindergarten, Primary, Middle, High School and College work and is a member of the Women's Foreign Missionary Society of the Methodist Church since 1896

The BISHOP COTTON HIGH SCHOOL FOR BOYS AND GIRLS, Bangalore This Institution was established by the Reverend Samuel Thomas Pettigrew, Chaplain of St Mark's Church, Bangalore, in April 1865, with the object of imputing

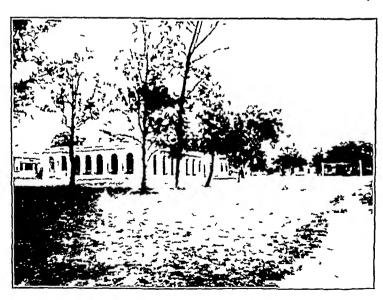
a sound education on Church of Inclind praciples to Intopen and I ar is on children of both - xethe box's school vas at first to ated in the build be on the Hall Ground at Bong dore nov known is. We tv ird Ho The Institution visubsequently removed to a more convenent local ty on South Parale The Reverend S. I. Petteres alb sequently tool over the privite school formerly conducted by M's Will aid and established it as a B shop Cotton Grls School The first Worden was Mr. Goorge Key nolds who was brought out from Inglend but he re- and the Werdensh p in 1867 In 1860 the S.P. C. K. ven. approached for a genut. n ud The upshot v is that the S.P.C.K. promised a rant of 1250 provided 41.750 vis rised by subscription in Ind . In the same year the Right Reverend Bishop Cotton Metropolitin of India v si ed Bangalore. He explened the method of rasing funds by public subscription supplemented by Government grant which had been successful in Bengal and a special Committee v is formed to further the project. In November 1870. the Committee selected the present site and it vas arranged to rent the boys school property for two years with option of purchase for Rs 22,000 it the expres of that

term. The objoining premare referenced on a complex preparation, the purchase more value to the fixed of



Tee S. I. Pritteria.
Chaptum of St. Marks Parich Ch. Ban galore and Lound rof the Jushop Cotton Schools

Rs 18000 The school opened in the new premises on the 10th Feb-10 av 1872. The Government of Indacquited a loan of Rs 57000 at 5 per cent in 1875 to enable the Trustees to absolutely acquire



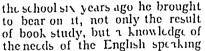
BISHOL COTION HIGH SCHOOL BANGALOLL A LORTION OF THE BOAS'
SCHOOL AND PLANCROUND

Williams laid the foundation-stone of Oldham Hall a three-storied building, named after Bishop Oldham, who has done much to further the interests of the school. There is a very strong and efficient staff of missionaries and laymen, az, The Rev P V Roberts, B A (Classics), Principal Head-master and Treasurer Rev C F Lipp M A Vice-Prin-

the confidence of the public that it is courted by those who are in a position to pick and choose". The school is strongly Evangelical Protestant

The Rev PRECY VIVIAN ROBERTS was born in Gudulai S-E Wynaad in 1874 and is the son of an English planter Eirly

in life he came into contict with Ame ricins and had his scho o l training in the school which he now administers He took teaching it the carly ige of six and tcen combin e d travel with study, so that when he was call ed to the Head

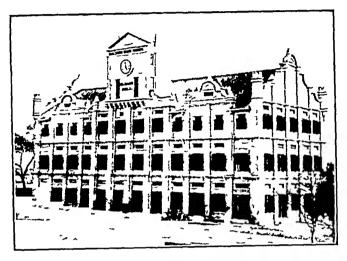


people of India, as well as the systems in vogue in England and America In 1897 he married the Head Mistress of the Girls' school, Miss Gricy Lson, whose efforts and experience, no less than his, is the large prosperity of the school duc

B A L D W I N
GIRLS' SCHOOL,
Bangalore Founded in the year 1880
by the Reverande
J E Robinson,
now Bishop Robinson The name of "Baldwm" was
adopted in honour of the Honourable John Baldwin of Berea, Ohio,
U S A, who had generously con-

At commencement the school school was dentified with the Baldwin Boys' School pupils of both seves being received at the establish ment which was then known as the Methodist Day School The school was run on this plan until the verr 1903 when it was thought advisable in the interests of both establishments to separate the girls from the boys' school girls' establishment from this time was managed as an entirely separrate organisation under its own Indy Principal who was at first Miss Montgomery, BA The present Principal is Miss E M Benthien, The school has it present accommodation for one hundred and fifty scholars and now has one hundred and twe pupils. It has accordingly been decided to mercase the accommodation and it is contemplated to add four more rooms to the present boarding establishment and to creet a new two storicd building of ten rooms I new music room is also in contemplation The school possesses i fine library and with additions will intended shortly own a thousand rupees worth of books There is an interesting museum attached A spacious garden exists for recreation, and the grounds in which the buildings stand measure about five icres Two interesting

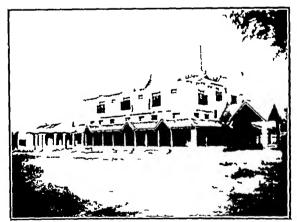
tributed $f_{I,000}$ to the funds of the



OLDHAM HALL" THE BOARDING HOUSE OF THE BALDWIN HICH SCHOOL, BANGMORF

cipal Rev Lee H Rockey, BA the Rev A B Coates, B sc, and J J Stevenage Esq, together with masters and mistresses One feature of the school, peculiar to it we believe, is the emphasis hid on the large part played in the board ing establishment by the ladies of the staff Mrs Roberts, Mrs Lipp, Mrs Coates and Miss Toussaint come into personal contact with the boys and play the part of mother and sister. There are all the requisite adjuncts of a firstrate high school, such is a museum, reading-room, library, gymnasium, literary society, and athletic club Negotiations are on foot to secure i generous swimming bath

The accommodation consists of four single-storied buildings, four two-storied and one three-storied building. There are six dormitories and quite a number of dining halls, and accommodation for 200 boarders. The school cadet corps is the largest in Bangalore, and to quote the words of Mr. Stuart Fraser in a recent public utterance of his, the school has so gained



RICHARDS HALL AND TOUSSAINI MEMORIAL, BALDWIN HIGH SCHOOL BANCALORI

literary societies are conducted entirely by the girls, and at these debating, elocution and music arc specially developed. There is also

of a third of a century igo, and that, however efficiently they might provide for the general education of the people, they could play no part in the creation of a commercial India It was clear to him that something of the nature of an institution or institutions analogous to the Johns Hoplins University in Baltimore was needed in Bombay, and it was only when he had failed to obtain the support of his fellow citizens and inducements were held out to him by the Government of Mysore that it was decided to locate the Institute in Bangalore It may be added that both Her Highness the Maharani Regent, and her minister the late Sn Sheshadri Iver, one of the ablest statesmen that India ever produced, took a keen interest in the scheme and that the latter was a close friend of the late Mr Tata, with whom he had much in common

From the outset Mr Tata offered to find a large sum of money for the endowment of the Institute, and almost immediately after the arrival of Lord Curzon in India, negotiations were opened with Government with a view to obtaining financial support These negotiations, which were conducted on behalf of Government by Sir Herbert Risley, Secretary in the Home Department, were brought to a successful conclusion at the end of 1903, when an arrangement was arrived at whereby Mr Tata set aside property guaranteed to bring in a minium income of one and a quarter lakhs, the Government of Mysore gave a capital grant of five lakhs, and an annual grant of half a lakh, and the Government of India contributed one half of the sum of these amounts, that is to say, a capital grant of two and a half lakhs, and upwards of eighty seven thousand rupees a year It remained to transfer the property to Government, and to draw up a definite plan for the organisation and work of the Institute, when, in May 1904 Mr Tata died, while on a visit to Europe

Shortly before Mr Tata's death two reports on the scheme had been published, one by Sir William Ramsay, and the other by Colonel Clibborn, the Principal of the Rurki Engineering College, and Professor Masson of Melbourne Of these reports it is unnecessary to speak at

length it may, however be stated that they igreed in recommending the establishment of the Institute for teaching and research in those branches of science, such as chemistry, electro-technology, bacteriology, etc. which bear on industry. They also expressed the view that the Institute should attract the right kind of student, and that the numbers should be limited.

Mr Tata's death naturally delayed the completion of his project but at the end of 1905 his executors. Messes D. J. and R. J. Fata his sois requested the Government of Ind a to take steps to appoint a director to the Institute. The present Director was offered the appointment on the recommendation of the Royal Society by the Secretary of State for India in August 1906, and arrived in India in November of the same year.

Owing to unforescen delays it was impossible to proceed at once with the establishment of the Institute but after some delay a constitution was drawn up and early in 1908 His Excellency the Viceroy as Patron of the Institute, appointed a Committee to manage its affairs pending the transference of the properties and the publication of the scheme The Committee met for the first time on the 23rd March, and shortly afterwards the building operations commenced (The Committee consists of the Resi dent (Chairman), the Dewan, the Director of the Institute, Professor Rudolf (Applied Chemistry) Professor Hay (Clectro-technology), Ma Padsha (representing Mr R J Tata) Mr Bhabha (representing Mr D J Tata)

Dr MORRIS WILLIAM 1R \VERS, D sc (Lond), FRS, 1904
Fellow of University College, London, Director of the Indian Institute of Science, Bangalore, is a Member of the Board of Scientific Advice for India Born January 24th 1872, son of the late William Travers, MD, FRCS, of London Educated at Blundell's School Tiverton University College, I on don, 1889 to 1893 University of Nancy, France, 1894 Assistantship at University College, I ondon 1884, Assistant Piofessor 1898 Fellowship, 1900 Elected to the Chair of Chemistry in University

College, Bristol, 1903 Appointed Director of the Institute, 1906

Publications The Experimental Study of Gases (Macmillan & Co) Papers relating to the discovery of the rare Gases of the Atmos phere, conjointly with Sir William Ramsay Papers on the Liquefaction of Hydrogen on the measurement of extremely low Temperatures, and on other subjects relating to physical and morganic Chemistry Articles on Education

Member of Scientific Societies The Royal Society, the Chemical Society, the Society of Chemical Industry the German Chemical



Dr M W TRWLKS

Society the Farndix Society, the Asiatic Society of Bengal, the Mining and Geological Institute of India, the Indian Association for the Cultivation of Science

Clubs The Royal Societies, St James' St, London the U S Club, Bangalore the U S Club Simla the Royal Bombay Yacht Club

Recreations Climbing, walking hishing

Address Indian Institute of Science, Bangalore

The NIZAM COLLEGE, Hyderabad, Deccan This institution was originally known as the Madrassa-i-Aliya or School for Nobles, and was founded by Sir Salar Jung I, to give education on English

the property and pay for the buildings erected In arrangement was made in 1871 by which twelve scholars known as "St Mark's Scholars" were admitted at half rates, the cost being pud from a Trust Fund in connection with St Mark's Church At the rendition of the Mysore Province to the Waharaja the Government loan was taken over by the Mysore Durbar who in 1889 generously remitted the half of the outstanding balance 16, Rs 4,682-4-0 In 1897 the Wysore Government made a special grant of Rs 2000 in recognition of the school's good work. The school prospered for a time but in the veni 1907 it was considered useless by the Committee to continue the struggle for existence in place of serious rivalry especially from missionary schools. It was resolved to approach the great Church Missionary Society of England to take over the Institution In accordance the Bishop of Madras irranged for the S P G Brotherhood working in Trichinopoly to come to Bangalore and undertake the m inagement of the school Under its auspices the school is regaining ill its old influence of Rs 25 000 has been expended in improving and extending the Institution and buildings attendance has increased and the Institution commands the esteem of all who wish their children to be educated by English gentlemen from English public schools The present Honorary Secret irv and Treasurer of the Bishop Cotton Schools and Chaplain of St Mark's, Bangalore, is the Reverend F W Heycock who was educated at Cheltenham College and New College, Oxford, where he took his B degree in 1890 and his M A in 1898 Archbishop Temple the Bishop of London, ordained Mr Heycock Dencon in 1891 and Priest in 1892 He served the curacies of St Mary's, Ealing, Christ Church, Blackfriars, and Christ Church, Forest Hill In 1898, he arrived in India, and served in several stations in the Madras Diocese In 1906, he came to St Mark's, Bangalore He has followed in the footsteps of his predecessors at St Mark's, in taking the liveliest interest in the welfare of the Bishop Cotton Schools was his lot to be the Secretary of

the schools at the most critical period of their history, and he has done his share in supporting their cause and seeing them rise from a period of depression to one of renewed prosperity in an increased degree

THE GOVERNMENT COLLEGE TUBBUL PORE

This college originated in the Sugor High School, which was cstablished by the General Committee of Public Instruction in 1836 and placed under the superintendence of a local Committee consisting of Government officials and native gentlemen of rank College classes up to the F \ Standard were added and the school affil ated to the Calcutta University in 1860 It was removed to Jubbulpore in 1873 The Institution continued to be'a Collegiate school till June 1885 when B \ Classes were opened The High School classes continued to be mantained till 1896 when the, were abolished

At present the College is affiliated to the Allahabad University up to the B A and B Sc Standards. There are large and well-equipped Physical Science Laboratories with a Mansfield gas installation. The Boarding house attached to the College accommodates about 82 students.

The Teaching staff consists of a European Principal and eight Indian Professors. It is the only Government Arts College in the Central Provinces. The present College buildings are unsuited to, and insufficient for, the needs of a first-rate Educational Institution, but this defect will soon be remeded, as a fine building for the College has been sanctioned by the C. P. Government. The growth of the College within the last twenty years is indicated by the following figures.

1886 47 Students 1891 87 , 1896 93 , 1908 164 ,,

Mr ROBERT McGAVIN SPENCE MA (Edin), Principal, Government College, Jubbulpore, Central Provinces Born in Scotland in the year 1866 Graduated at Edinburgh University, where he took his Managere in 1889 Joined the Indian service in 1890 and arrived in India July 31st of same year, and was appointed to the substantive rank of Superinten lent Training Institution, agpur In 1894 he was appointed temporarily to officiate as Principal, Jubbulpore College. In 1900 after furlough he did duty as Charge Officer on Famine Duty and at the end of the sams year was appointed to officiate as



Mi R McGavin Sirver

Inspector of Schools, E C In 1903, after returning to the Training Institution, now in Jubbulpore, he did duty as Plague Executive Officer In 1906, he again offic ated as Inspector of Schools, Northern Circle In January 1908, he was appointed Principal Government College, Jubbulpore Mr Spence is a Fellow of the Allahabad University

INDIAN INSTITUTE OF SCIENCE, BANGALORE

It appears that as far back as the vear 1894, or perhaps even at a much earlier date, the late Mr J N Tata Parsi merchant of Bombay, first conceived a scheme for the establishment in his native city of a university for post graduate study and research. Mr Tata realised that the colleges attached to the Indian Universities resembled in some respects the American colleges.

of the population are tillers of the soil These agriculturists live iso lited lives bounded by the confines of their villages, within which then interests he and with smill mems of obtaining information of the doings of the outside vorld The identities of civilization science and education which have tollowed the extension of British Rule in India have been slov in reaching the masses of the agri-cultural population though signs of in waking ire not nov v int ing Among these signs is the Vokkaligara Sangha, the establish ment of which is due to a few calucated gentlemen of the community Messrs 1 Brann th B Kempinni B Vagappa Bar at-Liw H Chin mich, M. L. Shuma Gov da M. Subbiah B. N. Channing appa BA. C Laksmana Gowda BA BI, (\ mjappa, MB, CM, KH Rumaya BA, B Puttuya BA These gentlemen seeing the backwardness of their people conceived it their duty to set themselves to remedy it Enlisting the sympathies of cert in well-to-do members of the commu nity they accordingly formed themselves into the Association numed as above, on April 1, 1906 The objects of this Association are (1) the establishment of students homes at Bangulore and other centres for Vokkaligar students under proper supervision, (2) the publication of a newspaper and other literature for the disseminition of information useful to the community (3) the deputition of lecturing missionaries to the interior of the country to secure the adherence of the Vokkaligars to the objects of the Associa-tion, (4) the organisation of an annual general conference to bring the Vokkaligars together for the purpose of mutual communication. as well as to pass and comment on the work of the Association, and thus effect unity among the scat tered community There are about a million and quarter of Vokkaligar agr cultimists in the State of Mysore, and the field is a large one His Highness the Maharaja of Mysore has signified his emphatic approval by consenting to become the patron of the Association The Vice-Patron is Mr V P Madhava Rao, BA, CIE, the Dewan of the State of Mysore, who was in the first instance

approached by the promoter the occusion of the second annual conference a siver easier was presented by the Vollaigues to H H the Maharaya vho opened the Conference and in addressing them referred to the importance of the Vollalgus who consttuted the great majority of the cultivators of Mysore The community he remarked had been bucky and in education content ng themselves with attending to the immediate business of their lives without paying heed to what was going on in the outside vorld. They had not found ther voice is a corporate body till vithin the last year or so. Any movement that tended to their welfare vould receive his support. His Highness was therefore graciously pleased to become the Patron of the Association The Association has vigorously taken up their progrumme. They have isled Govern ment for a grant of land on which to construct the students home and other buildings and Messrs Marappa and Manisy an appa yealthy members of the community, have under then to erect the buildings at a cost of 20 to 30 thousand rapees. The ligir Patrika, 'a Cinirese veelly, is being published of which Mr B Puttayya the Assistant General Secretary of the Association is Editor A printing press and accessories have been required Mr K II Ramayya BA who is the life and soul of the Association, has toured through the districts and lectured to the Vokkiligirs with success as far as Combutore and the Nilgiris It is under contemplation to train men under him for missionary work Mr I Byannah President of the Sangha who takes a keen interest in its work has made a handsome donation of Rs 10 000 to the funds, besides lending his substantially built house at Cottonpetta, Bangalore, for the office and printing establishment Mr B Nagappa, Bar-at-Law, and Member Mysore Legislative Council has also evinced his deep interest by a donation of Rs 5,000 In all some Rs 20,000 has been collected from sympathisers and deposited in the Bank of Madras in accordance with the rules of the Association The Conferences held at Bungalore

(1996) and Mysore (1997) were numerously attended and the damers and social gatherings organ don the enecisions have done much to disp I prejudice and externancher and promote expirit of unity

Mr. JOHN WHR. MA FM I. M. Prine palof the Maharigus College Mysore. Born in Scotland in the veir 1862 and educated at Glismos High School and Glico. University where he tool the degree of M. A. with first class honour in Mathematics, and Natural Philoophy. He subsequently attended Cambridge University where he tool the degree of B. A. and M. A. (1886) and 1860. He was for four years



Mr J Wen

Assist int Professor of Withemities at the University of Glisgow at the expiry of which period he joined the educational service of H. H. the Witharaja of Mysore and came out to India with the grade of Superior Educational Officer and class, and the appointment of Principal of the Maharaja's College which he has held ever since being promoted to the 1st class in 1899. Mr. Weir was also a member of the Maharaja's Girls School from its inception to its abolition in April 1908. He is in Honority Fellow of the Madras University.

public school lines to the sons of nobles and gentlemen In 1887 the old Hyderabad College wis abolished, on account of smallness of the number of its students, and its classes incorporated with the Madrassa-i-Aliya, the combined institution being named The Nizam College This is a first grade college, affiliated to Madras University, and his a staff of graduates of English and Indian Universities, and of Moulvis and Pandits for the Oriental side The college is open to all matriculates, the fees are about seventy rupees a year, and there are Government scholarships to the total value of Rs 340 The School as formerly, is open to sons of nobles and higher officials—the fees are ten rupees—a month—The Boardinghouse can accommodate about thirty boarders the fees are about tifty rupees a month. There are ten or twelve scholarships from Rs 70 to Rs 100 for Murshidzadis boys belonging to families more or less closely related to that of His Highness The Nizam, and residence in the boarding school is obligitory on the holders of these

In 1907 the college was formed into a department independent of the Director of Public Instruction, and was placed under the management of a Board of Governors. There is an excellent library of several thousand volumes kept fully up to-date in all the departments of study, and the managing body has determined on improvements on a large scale which when carried out will make the college, both on the English and Oriental sides, one of the best-equipped institutions of its class in India.

Mr E A SEATON, MA, Principal, Nızam College, Hyderabad, Decean Born in England in the year 1858 Educated at Leeds School, Yorkshire, and proceeded to Oxford University as an Exhibitioner, where he graduated, taking honours in Classical Moderations and the Final School of Jurisprudence In 1882, he was selected as assistant headmaster of the Madrassa-ı Alıya or School for Nobles, Hyderabad Later, when the Nizam College was founded, he was appointed Vice-Principal under the late Mr Hodson, MA He officiated in this capacity

for eight years, and at the expiry of this period was appointed Inspector of Schools, Aurungabad Mr Hod-



Mr. I. A. SLATON

son dving in 1894 Mr Seaton was appointed to succeed him as Prine pal of the Nizam College

Mr PHHI IP HENRY STURGE, Mr, Vice-Principal, Nizam College, Hyderabad Deccan Born in England 1860 Educated at York School Was a scholar of Kang's



Mr P H STURCI

College Cambridge, and passed the B A Examination in the year 1886, being bracketed senior in the Historical Tripos. He took his M A degree n 1890 and came to Hyderabad to take up his present appointment of Vice-Principal, Nizam College.

Mr JOHN GUTHRIE TAIT, MA, Bar-at-Law, Principal Central College, Mysore Mr Tait was born in the year 1861 at Edinburgh, Scotland, and educated at the Edinburgh Academy After taking the MA degree at the University of Edinburgh, he went to St Peter's College Cambridge and took a first class in the classical Tripos in 1883. He was called to the Bar at Lincoln's Inn in 1888. He was at Lincoln's



Mr J G TAIT

Inn for about five years In the year 1890 he came to India to join the Mysore Educational Service and was appointed Professor of English at the Central College In April 1908 his present appointment as Principal of the same Institution was bestowed upon him

The VOKKALIGARA SANGHA This Association was started for the education and amelioration of the condition of the Vokkaligars, who form the main agricultural population of the State of Mysore India is still mainly an agricultural country and the bulk

Calcutta Chimber is soon is it was iscertimed what privileges had been extended to that Chimber by the Governments of India and Bengal. In advowledgment the Government Order, and referring to the matter of the idmission of Indian merchants, the Chimber said that the only two Indians connected with the trade of the Port valoo had expressed their wish to become subscribers of the Association had been entolled among its members, and that it was open to any Indian, is it was to any European, merchant to obtain admission to it, it my time, by adopting the usual course presented for emiddates by the Rules and Regulations of the Chamber

Several Indian firms did take advantage of the privilege but in recent years Indian member hip has dwindled considerably, and at present there is not a single Indian firm represented in the Chamber

From the year 1841 when its first Secretary went

Lngl ind until December 1854, when his successor, Mr Benjamin Cardozo, was appointed, the Chamber took very little part in the public life of Madias From the latter year, how ever, it made up for any lack of activity that may have been shown during the first decade and more of its exis tence No permanent arrangements were made respecting a building for the meetings of the Cham-



Sir CHARLES I AWSON, Secretary from 1862 to 1892

ber, and in its earlier years it occupied a furnished form, wherever accommodation offered. In 1869 the Chamber entered into possession of a room which had been specially built for it at No 6, Frist Line Beach, Black Town (now Georgetown), and since then it has occupied these premises in conjunction with the Madian Mail, the tie binding the Chamber and the leading journal in South India being Sir Charles Lawson, one of the proprietors, and who for twenty three years was editor of that paper, and his son Mr A E Lawson, now, editor of the paper, who have successively held the Secretaryship from 1862 to the present day

THE CHAIRMANSHIP

Among the leading merchants of Madias who have filled the office of Chairman, are the following —

Mr. J. A. Arbuthnot, Mr. J. W. Dare, Mr. W. S. Benny, Mr. John, J. ine., Mr. J. and Scott, Mr. J. A. I. Illis, Mr. J. ine., Arbuthnot, Mr. J. B. Key, Mr. George Arbuthnot, Mr. Henry, Selon, Mr. Walliam Mediel, art, Mr. W. A. Arbuthnot, Mr. Joseph Gooddea, *Mr. R. C. Gumph, II., Mr. W. H. Crake, Mr. John, Vans, Armes, *Mr. A. J. Parade, *Mr. W. Rierson, Arbuthnot, Mr. Henry, John, t. Mr. J. Patrick, Mr. Guller, Mr. A. J. Brown, *Mr. J. C. Loch, *Mr. Patrick, Mr. Gulven, Mr. R. C. Waller, *Mr. C. Iment, S. Superior, Mr. J. Jone, *Mr. Micheleszie, Mr. J. C. Shaw, *Mr. J. A. Boyson, *Mr. (no.) S. r.) George, Arbuthnot, *Mr. S. R. Lurabull, *Mr. G. J. Chambers, *Mr. A. J. Yorke, Mr. H. Scott, and *Mr. V. G. Lynn.

RELESS TATO O PUBLIC BODES

Since the year 1862 representatives of the Chamber



Mr. A. I. LAWSON, Secretary from 1892 to date

hisse u on the Midras Legislative Council The nimes tho egiven those marked with in 25 terisl 170 tho e u ho have held this office Previous to the verriba_the selection of i Member repres nt the Chambr on the Council wis entirely in the hands of the Govcrnment, but since the enlargement of the Council, the Chamber has elect ed its represent itive for nomination

by Government to the Council Still more recently the Chamber has been given a voice in the administration of the municipal arrangements of the city, in the proper control of which its members, among whom are some of the lugest rate payers, have such a deep interest. By a recent amendment of the Madias City Municipal Act, the Municipality was converted into a Corporation, and the European community of the city was given a better representation than it had been possible to secure previously by election, or by nomination by the Government. Under the new Act constitutional bodies like the Chamber of Commerce, the Madras Trades Association, the Railways etc., have the privilege of electing a certain number of Commissioners to represent them on the Corporation. The Chamber of Commerce is now represented by three members.

Madras Chamber of Commerce.

THE listory of the growth and expansion of the trade of Madras during the past seventy years, is the history of the Madras Chamber of Commerce—an Association of the merchants of the Presidency capital, which was incorporated on the 29th September, 1836 The mangural meeting was held at the office of Messrs Binny & Co, Armenian Street, Black Town (or Georgetown, as it is now called), a firm which is still con-

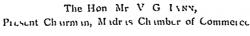
nected with the Chamber It was then unanimously resolved -"That in Association be formed in Madras under the designation of the Madras Chamber of Commerce ' Mr John Mycs Arbuthnot was elected Chairman, and a Commuttee, comprising Messrs J W Dare, J Line, J Scott, D Pugh, J Ouchterlony and J Barrow, was appointed Mr W H Hart was nominated Secretary, and Messrs Binny & Co undertook the office of Treasurers, which they held until recently

At the first meeting of the Chamber, communica tions were opened with the East India and China Asso ciation of London and with the Calcutta Chamber of Commerce, which had been established in 1835 In the letter to the Calcutta Cham ber it was stated that "the principal object of the Madras Chamber being the same as that of Calcutta, namely, the amelioration of ill Laws and Regulations bearing on Commerce in

the East Indies," the Committee was "induced to hope that it will have the honour of your correspondence on all subjects affecting the general interests of India," and it looked "forward with great satis faction to the probability of the united voice of the Chambers of the three great Presidencies, forming the organ of the whole of the commercial interests of India, aided by the powerful influence and sup

port of the List India and China Association, effecting much toward the removal of the restriction, which has long been denied to individual representations" In December of the same year, correspondence was opened in the same way with the Bombay Chamber, which had been established barely a week before that of Madras, and on the 10th May, 1839, the co operation of the Ceylon Chamber was welcomed by the

Madras Chamber On the 12th February 1856, the Madras Trades Association, the younger sister of the Chamber of Commerce, came into existence, and the Chamber, in offering its felicitations, assured the Trades Association of its cordial co operation in all matters connected with the commercial interests of the Presidency The Government of Madras were informed on the 11th October, 1836, of the establishment of the Chamber, and were asked to allow that body to correspond directly with the different public depart-The request was laid before Sir Frederick Adam, KCB, the then Governor of Madras, when the following order was passed thereon —"The Right Honourable the Governor in Council anticipates much public good from the proceedings of the institution and would have felt some additional satisfaction had he observed the The Hon Mr V G INNY, names of some of the prin-



cipal native merchants eniolled among its members " Adverting to the Chambci's request to deal directly with heads of Government Departments, the Governor in Council "considers it preferable that the information required by the Asso-ciation should be supplied through the medium of the Government. Finally in the matter of the privileges to be accorded the Chamber, it was decided to place the Madras body on the same footing as the



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THE SECRETARYSHIP

In the early years of the Chamber, the office of Secretary was apparently not much considered Mr Hart, the first Honorary Secretary, retained the office for only three months, and then resigned cessor, Mr A J Macleanc, was a paid Secretary, but on his departure for England in 1841, no one was appointed in his place, the Chamber, as already stated, being in a state of suspended animation. The office of Secretary remained vacant until December 1854, when Mr Benjamin Cardozo was appointed and held the Secretaryship until the 231d May 1861 He was succeeded by Mr R W Norfor, who filled the appointment for a year, and then resigned on being appointed Superintendent of Stamps He was succeeded in 1862 by Mr (now Sir) Charles Liwson, who held office continuously for thirty years a period which synchronises with the development of the Cham

ber from small and tentative beginnings into vigorous life and powerful influence, not only on the commerce of Southern India, but on that of the whole country

was m It 1886, on the 29th September, that the Chamber attained ıts Jubilee Αt าก Extraordinary General Meeting it was resolved " that a day, to be fixed on hereafter, be observ ed as a general commercial holiday in honour of the fiftieth

anniversary of the foundation of the Chamber, and also that a dinner be given at the (Madras) Club'' In accordance with this Resolution, the 18th December was observed as a general holiday and a very successful banquet was given at the Madras Club at which the Governor, the late Lord Connemara, was present Mr (now Sir) George Arbuthnot, the nephew of the first Chairman, Mr J A Arbuthnot, was at the time Chairman of the At the same Chamber, and presided at the banquet Extraordinary General Meeting of the Chamber, held on the 29th September, the Chamber placed on record its very high appreciation of the services rendered by Mr Lawson, who had then filled the office of Secretary On the to the Chamber for nearly twenty four years 30th June, 1887, Mr Lawson presented to Her Majesty the late Queen Victoria, at Windsor Castle, the Madras Address of Congratulation on the completion of the Jubilee year of her reign, when Her Majesty conferred

upon him the honour of Knighthood In 1891 Sir Charles Lawson was in England on leave, and as he was unable to return to Madras, he wrote to the Chamber saying, that he was reluctantly compelled to ask it to accept his resignation of the office of Secre tary which he had held since November 1862 next General Meeting of the Chamber the following icsolution was carried unanimously -" That the Chamber accepts Sir Charles Lawson's resignation with very great regret, and that the Chairman be requested to convey to him in suitable terms its high appreciation of his excellent services in the past, and to again place on record its coidial acknowledgment of them" Charles Lawson was afterwards the recipient of a handsome piece of plate as a souvenir of his long connection with the Chamber

Sir Charles Lawson was succeeded by his son, Mr Arthur Ernest Lawson, the present Secretary, who

has had charge of the affairs of the Chamber through another long period of constant change and development in the trade of Madras

THE WORK OF THE CHAMBER

The interests of the trade of Madras have been sedulously guarded and pro moted by the Chamber of Commerce practical expe rience of matters intimately connected with the conservation and development of the material resources of the



OTTICES OF THE CHAMBER OF COMMERCE, MADRAS

country has been largely utilized by the Government of Madras, and its opinion has been frequently invited by the Government of India on Imperial legislation con nected with the trade and commerce of Madras such subjects as stamps, customs, contracts, bank ruptcy, coolie emigration, merchant shipping, master and servant, municipal taxation and reform, currency, Government securities, Presidency banks, adulteration of raw products, the Legislature has received much material assistance from the Chamber, while on such technical subjects as boat-notes, tonnage schedules, port rules, port clearances, fees to Port officers, Marine courts, landing charges, railway freights, train service, negotiable instruments weights and measures, trade marks, value-payable parcels, bills of lading, general average, rates of interest, notarial fees, usance of bills, commercial statistics, detention and acceleration of mails, postal and telegraph charges, telegraphic codes, annexation of Pegu in 1852, it was some years before a Chamber of Commerce was formed in Burma causes which led to the formation of the second Chamber in 1877 and its subsequent history to the present time are easily traced, but there is very little trace of the first Chamber A chance reference to Mr John Connell as Honorary Secretary to the Chamber of Commerce in 1863, shows that it existed then Mr Connell seems to have been Secretary to the first Chamber throughout its existence, and he was also the first Secretary to the present Chamber The Reports of the first Chamber for 1867 and 1869 are extant, and they show that through that time the Chamber was protesting against an addi tional export duty of one anna per maund on rice, which had been imposed in March 1867. In a book published in 1869 by Captain Bowers, RNR giving an account

of an expedition sent to Yunnan in 1868, he says -"The Chamber of Commerce of Rangoon was represented by Theodore Stewart, Esquire, of Akyab, a gentleman of considerable experience, the other section of the mercantile body appointed Mr John Stuart their Agent " Whether the expenses of that expedition exhausted the funds of the Chamber, or whether it was wrecked over the disunion implied in Captain Bowers' remark, above quoted, there is nothing to show After 1869 there is no trace of its existence, and when a further expedition was sent to Bhamo at the end of 1870, the funds were subscribed by individual merchants, and there is no mention of any Chamber

The existing Chamber of Commerce was formed in 1877 During the years which elapsed between the collapse of the first Chamber and the formation of the present one, whenever joint action of any kind seemed desir able the merchants combined to do what would be ordinarily

done by a Chamber of Commerce In this way they combined, towards the close of 1870, to send a trial consignment of goods to Bhamo in order to test the possibility of increasing the trade with Western China Although the treaty with the King of Burma stipulated that goods passing through Upper Burma to Western China should pay only one per cent transit duty, this privilege was practically never even claimed by the native traders in whose hands the trade lay They were in no position to resist Burmese officials, and had in practice to submit to almost any exaction that might be levied It was thought that a consignment to Bhamo, under the charge of a European, might lead to a better state of things A consignment of goods, such as were considered likely to find a ready market, was accordingly prepared and despatched under the

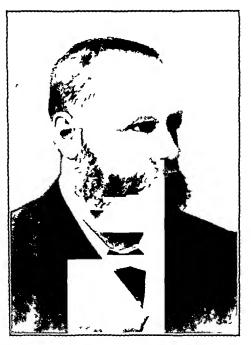
care of Mr John Stuart to Bhamo, to be sold there, for Western China, paying only the one per cent transit duty. There was no difficulty in getting them up to Bhamo, under Mr Stuart's promise to the Burmese authorities to give an account of the sales and settle the duty afterwards. Three months in Bhamo sufficed to sell the whole consignment, without any exaction licit or illicit, on the part of the Burmese officials at Bhamo, so long as the goods remained in Mr Stuart's hands But immediately they had passed into the hands of the traders who were to take them into China, the illicit exactions began greatly facilitated by the fact that almost everything had to be opened out and repacked for mule transit At every stage of the journey, too, fresh exactions would be made by every petty chieftain through whose

> territory the caravans had to Under these circumstances there did not appear to be much prospect of increasing the trade with Western China, even if the rule as to the one per cent transit duty could be applied On this point, however, a difficulty arose when it came to the final settlement with the officials in Mandalay They claimed that, as the goods had been sold in Bhamo, they were hable to full duty, and, according to the Burmese version of the treaty, their contention on this point was correct

It was not until some years later that the necessity for joint action became so acute as to lead to permanent co operation in the form of a Chamber of Com Throughout 1875 and merce 1876 there had been a good deal of dissatisfaction among the timber merchants of Moulmein regarding the action of the Forest Department Up to 1873, the principal Government forests in Tenasserim were let out to permit-holders who brought out the timber, paving certain fixed

dues In 1874 the system seems to have been altered, the merchants attributing the change to the fact that in that year there were no bidders for the largest forests, and asserting that this was what led Government to work these forests by Government agency. The Chief Commissioner, however, denied that "the permit system was relinquished from any difficulty in finding parties to engage with Government for the extraction of timber, or that Government has any desire or intention of resuming that system."

It was not, however, to the extraction of timber from the forests by Government agency that the merchants objected That they admitted to be perfectly legit mate But in 1875 Government seems to have started cutting up and exporting timber, and to this the Moulmein timber merchants objected very strongly indeed. In October



M: JOHN MACGREGOR
A former Chairman of the Burma
Chamber of Commerce

Burma Chamber of Commerce.

It is not surprising that the merchants of Buima made no attempt at organisation so long as they had to live under the Burmese Government. The native rulers were very intolerant of criticism, and had very summary ways of suppressing it. For instance, in 1843 Mi. M. F. Crisp, a merchant, who had resided in Rangoon for many years, incurred their displeasure over a letter of his which had been published in the Calcutta Star, commenting on the methods of the Burmese Government. Mr. Crisp was in Moulmein at the time, but

had to return to Rangoon, as the Burmese Governor had threatened to execute vicarious punishment on Mr Crisp's son, if he could not get hold of the father On Mr Crisp's return, he was placed under confinement for a time, but was released on his promise to quit Burmese territory

It is curious, however, that no attempt at forming a Chamber of Commerce seems to have been made in eithei Moulmein or Akyab after they came under British rule in 1826, although certain old records of Moulmein ındıcate that the timber merchants ınd ship builders there, during the thirties and forties of last century, had plenty of enterprise and were ready enough to combine for any public purpose Shipbuilding seems to have been started in 1830, when a small vessel of 51 tons was built, to which the name, Devil, was given By April 1842, however, the total number of ships built at Moulmein amounted to 65, including one steamer, and their nggregate tonninge was 16,324

The old Moulmein newspapers show clearly enough that the timber merchants and ship builders were often in a state of protest against the acts of the local authorities, or even against those of the Supreme Government, and were made enough to cooperate in protesting loudly when occasion required. For instance, in 1844 a good deal of dissatisfaction was felt over certain lands that had been taken up for roads, without compensation being granted to the owners. On the 9th January, 1845, a considerable portion of the town

was destroyed by fire Next day a public notification was issued by Captain McLeod, on behalf of the local authorities, prohibiting the re-occupation of the sites. On the roth January an indignation meeting was held, and a Committee was appointed "to devise such measures for the protection of property as the present emergency requires". This Committee waited on Captain McLeod and asked on what authority the Local Government sought to deprive them of their land. Captain McLeod denied that they had any pro-

prietary rights, said he consithat the dered space was necessary for the safety of the Cantonment, and suggested that the inhabitants should memoualise the Supreme Government When this memorial ın Calcutta reached Calcutta some of the papers there expressed sympathy with the inhabitants of Moulmein but the Friend of India condemned the memorial as too long, very unreadable, and impertinent The impertinence lay in call ng the fire "a convenient fire ''

Again, in 1850, there was indignation among the Europeans throughout India over what were known as the "Black Acts." by which the exemption of Europeans from the jurisdiction of the Criminal Courts of the East India Company was to be abolished Mr T Dickens, a Barrister, led the opposition in Calcutta, and Moulmein, of course, entered its protest also A short time afterwards, Mr Dickens visited Moulmein, and was given a public dinner there,

the band playing "See, the Conquering Hero comes" when he entered the rooms In replying to the toast of his health Mr Dickens alluded to the East India Company as "the rascals who sell justice" These two instances show that the mercantile community of Moulmein were certainly not unduly subservient to authority, whatever other faults they may have had I et they seem never to have joine I in the permanent co operation which a Chamber of Commerce represents, though Calcutta had a Chamber as early as 1838 and Bombay one in 1836. Even after the



Mr ALFANDER PENNOUICK
A former Chaum in of the Burm i
Chambei of Commerci

tion of the Government of Burma from that of India, and the establishment of a separate Crown Colony in direct connection with the Home Government say for the whole of the Malay Peninsula? The following extract from the reply sent by the Rangoon Chamber of Commerce is an interesting record of local feeling at the time—"There is undoubtedly a widespread feeling of discontent, especially among the European non officials in Rangoon, at some of the results of the connection with India—The feeling, however, originated mainly in resentment at the injustice of the alienation of Burma's surplus revenue, and at the indifference so long manifested by the Government of India in the matter of misrule in Upper Burma—The latter grievance has now been removed and it is felt that, although the

Instory it such length. The later history must be very briefly described. The following are probably the points which excited most general interest, at the time they occurred. In July, 1887, acrowded Special Meeting vas held "to support the Irrawildy Hotilla Co., I td., in their request to have the whirt tolls and dues on the Inland traffic, which the Port Commissioners purpose to levy, compounded for a payment of Rs. 12,000 per unium, such amount to be re is essed periodically." The Chinese and other shippershad previously memorialised the Chief Commissioner on this subject, and the Chamber urged that the ofter of the Irrawaldis Plotilla Co., I td., was fair and reasonable, and that it provided for the interests of the Port without harassing traders.



MERCHANT STILLET, RANCOON

annexation of Upper Burma does strengthen the case for separation, agitation directed towards that end would come with a bad grace from the European merchants just after the Indian Government has so fully met their wishes in regard to the Northern portion of the country'

From the time of the annexation of Upper Burma, the work of the Chamber proceeds on more ordinary lines. Previous to the annexation, the merchants in temporary combination, or, later on, the Chamber of Commerce, were facing the difficulties of a comparatively small frontier province with barbarism beyond the border. In India, one would have to go much further back in time to find a similar situation. This must be our excuse for describing that portion of the Chamber's

Through the next few years, three subjects constantly recur, (1) the need of a local High Court, a need which was first urged by the Chamber in 1884, (2) the necessity for having a representative of Burma in the Imperial Legislative Council, and (3) the need of having the Province converted into a Lieutenant Governorship. In 1895 the second of these needs was recognised by the Government of India and Mr. Glendinning, the Churman of the Rangoon Chamber of Commerce, was appointed a Member of the Imperial Legislative Council There was, of course, no Legislative Council in Burma, until the Province was raised to the status of a Lieutenant Governorship in 1897. It was not until the year 1900 that the Act constituting the Chief Court of Lower Burma was passed, but the gratification of the

1875 Messis Bulloch Brothers and Company made a complaint to the Chief Commissioner on this subject Mr Ribbentrop, the Conservator of Forests in Rangoon, when called on for an explanation, said that the sales of converted timber, which he had made up to that time, consisted of the refuse of sleepers cut up for the Railway Department, but he admitted that a small quantity of planks had been shipped to Calcutta, and he declared his intention to ship some first class India squares in order that he might become "au fait in the ins and outs of the timber market" During 1876 and 1877 upwaids of 7,000 tons of converted timber were exported from Moulmein by the Forest Department Of this 2 000 tons consisted of sleepers for the Irrawaddy Valley State Railway, that is for the line from Rangoon to Prome, which was the first line constructed in Burma.

remainder, 760 tons were shipped to England for the Admiralty, but the balance, over four thousand tons, was sold in various markets, coming into direct competition with shipments made by the timber merchants of Moulmein This led to a protest, on the 31st October, 1877, which was signed by eighteen European and Native timber firms in Moulmein Six weeks later, this was backed by a protest on the same subject from the Rangoon Chamber of Commerce, which had meantime come into being

Another burning grievance was the interference of the King of Burma in the matter of the trade between his country and British Burma. In 1874 75, this trade reached a total of sixty lakhs, but in the following year it declined to forty nine lakhs and in 1876 77 to forty eight lakhs. This result was attributed by the merchants of Rangoon to the action of the King. On the 28th February 1877, a remonstrance signed by 39 merchants of Rangoon—

Europeans, Chinese, and Natives of India—was sent to the Chief Commissioner, in which it was stated—"The Chinese merchants of Rangoon were formerly, as you are aware, in the habit of consigning large quantities of piece goods, salt, etc., to Upper Burna An attempt was made by the King, in 1871, to coerce these men into selling their goods to him alone, this attempt proved a comparative failure, and the King has now adopted another mode of monopolising the up-country markets, which we beg to state as briefly amounts to the same thing, has forbidden his subjects to buy from any one, except men appointed by him who are called Royal Brokers—Four of these brokers are now in Rangoon, and they, in conjunction with a Marwaree trader, are purchasing piece goods for sale

in Mandalay and other up country towns The Chinese merchants are thus prohibited from doing any business, and there is, consequently, none of that healthy competition specially provided for in the Treaty" This protest was followed, in January, 1878, by a similar one from the newly re established Chamber of Commerce

These two grievances, that of the timber merchants in Moulmein, and that of the import merchants in Rangoon, seem to have convinced the mercantile community of Burma that it was a mistake to continue any longer without a Chamber of Commerce Accordingly a meeting of merchants was held at the office of the Rangoon Municipality on 1st November, 1877, "to make preliminary arrangements for the re-establishment of a Chamber of Commerce at Ran

goon" Mr A Watson, the Agent of the Chartered Bank of India, Australia and China, was Chairman, and the following gentlemen were present —Messrs Hallıday, Melvılle, Hıntze, Fınlay, Borland, Buchholtz, Scheppelmann, Krauss, Connell, Gillam, Muller, Scott, Stuart, Binning, McIver, Bryce and Rowett The first Committee of the new Chamber consisted of Mr Melville, Chairman, Mr Halliday, Vice Chairman, and Messrs Hintze, Borland, Watson, Krauss and Bryce, Members of Committee Mr John Connell was appointed Secretary, an office which he continued to hold until the middle of 1882 He was succeeded by Mr John Stuart, who carried on the work until June 1893 The next Secretary was Mr Alexander D Warren, who was succeeded in March 1904 by Mr Charles A Cones In October, 1907, Mr J Whitlow, the present Secretary, was appointed

The records of the Chamber contain no further allusion, beyond the first letter of protest,

yond the first letter of protest, to the grievance of the timber merchants of Moulmein. so that must have been promptly redressed But it is very different in the case of the complaints against Although there are occasional the King of Burma protests about the working of the Courts in British Burma, and dissatisfaction is expressed at the aliena tion of so much of Burma's revenue to India while the province is so badly in need of an increased expenditure on communications and on more efficient administration, the misrule in Upper Burma is the chief subject of protest until the annexation of that province in 1886 Early in that year, the Secretary of the London Chamber of Commerce wrote to ask whether the annexation of Upper Burma "does not give more, rather than less, emphasis to the claim made by your Chamber, some time ago, for the separa-



Mr JOHN STUART,
Secretary of the Buima Chamber of Commerce,
Fiom 1882 1893

Madras Trades Association.

THE history of the Madras Trades Association as at present constituted, dates back only to 1901, in which year it was registered as a Company under the Indian Companies Act of 1882 with limited liability, but without the addition of the word. Limited " to its name For some years previous to this there had been in existence an informal association devoted to the interest of retail trade, but it published no annual report and the existing records of the work on which it was engaged are but few. The heads of the various trading firms took such action as was considered desirable for their mutual benefit, and from time to time a book vas circulated in which vas recorded such information as was likely to prove of service to those concerned, in the conduct of their triding operations But there was no officially recognised organisation until 1901, when the Memorandum and Articles of Association, and bye-laws for the regulation of Trusts were drawn up on lines similar to those of the sister Associations in Calcutta and Rangoon, and these vere adopted at a General Meeting held on the 4th June 1901 Later an application was made to the Government of Madras for the grant of a license under Section 26 of the Indian Companies Act to enable the Association to register as a Limited Company, and on receipt of the same the Association was duly registered on the 25th November 1901 Mr E W Orr, of Messrs P Orr and Sons, was elected the first Chairman of the re-constituted Association, a position he continued to hold until February 1909, when Mr J O Robinson, of Messrs Spencer & Co, Ltd, was elected in his stead, and Mr F J Dawes was appointed Secretary, which post he still continues to fill Mr Orr, the Chairman, was selected to represent the Association on the Harbour Trust Board, and a Committee was appointed, which at once got to work on several important measures then under the consideration of Government Committee addressed the Government upon several matters of imperial and local interest, among the latter being the improvement of the Madras Harbour, and a protest which they entered against the proposed action of the Government of Madras to amend the Harbour Trust Act in order to make the Board responsible, with retrospective effect, for the construction and maintenance of the protective revetment north of the harbour, which caused the amendment of the Harbour Trust Act to be held in abeyance, and finally altered in accordance with the suggestions made early days of its existence, too, the Association devoted a good deal of attention to social matters, and in 1902 the Chairman showed himself to be strongly in favour of the early-closing movement He urged that there were certain social duties pertaining to a public body such as the Trades Association, and he was strongly in favour of closing all trading establishments at 5 PM instead of at 6 P M, thus allowing time for the assistant

employed at these establishments time for recreation He v is convinced that even as an experiment the plan v is well worths of adoption, that firms would be no losers by the shortening of busine's hours, but rather yould gain by the improved health and consequent increased energy of their assistants, and that one of the most urgent needs of the frides community vas a social club on the lines of the Dalhousie Institute it Calcutta. In a spirited address to the members of the Association the Chairman said — Gentlemen what do ve is an Association do for our assistants socially? I am afraid no satisfactors answer can be found and yet I think none of you will argue that our responsibilities especially towards those whom we have brought out from Home ceases at the doors of our establishments. It is not pleasant to have to record that the chorts of the Churman to secure more considerate treatment for shop assist ints ended in fulure regards early closing the proposal was on the whole favourably received and it was agreed to by all but one firm, but the refusil of this one member caused the scheme to be abindoned. A proposal which emanated from H. E. the Governor of Madras as Honorary Colonel of the Madras Volunteer Guards as to the best means of promoting the strength and efficiency of that Corps, met with a more favourable reception. The letter expressed the hope that His Excellency might receive an assurance from the Association of its villingness to co-operate with him endeavours to increase the strength and this assurance was readily given the members of the Association expressing their willingness to support and encourage volunteering among their employees Later on the early closing movement was revived and a compromise was effected by which all firms agreed to close at 5-30 PM instead of at 6 PM during the hot months. A Trades Sports Club was also organised to provide sports and games as a means of recreation for principals and assistants of firms

The Garden Club which is appropriately named, being situated in the midst of extensive grounds and attractively kept gardens, may be mentioned as an offshoot of the Trades Association It is a proprietary institution, the shares being held by members of the Trading firms in Madras Outdoor sports are provided in abundance, there being four excellent Tennis Courts, quite the best in Midras, two Badminton Courts, a Croquet Lawn, Quoit pitch, and space for Football or Cricket practice, a miniature Rifle Range under the license of the Commissioner of Police is an additional attraction The Club house is a two stores ed building, well appointed and roomy, containing two Billiard Rooms with four tables Reading Bridge Rooms, whilst upstairs ample accommodation is provided for Concerts and other entertainments The Club is open to ladies Though primarily

Chamber at getting this Court, for which they had been asking for 16 years, was damped by the fact that a member of the Civil Service was to occupy the position of Chief Justice A protest was at once made, and this was subsequently renewed as occasion offered, but it was not until 1906 that a Barrister of experience, in place of a member of the Civil Service,

was appointed Chief Justice

There is, unfortunately, no record concerning the Chairman of the Chamber during its earlier years Mr Melville, of Messrs Todd Findlay & Company, was the first, Mr Krauss, of Messrs Gillanders, Arbuthnot & Company, seems to have succeeded him in 1878, though only for a short time, as Mr Richard Rowett was appointed Chairman at the Annual Meeting in November of that year At the Annual Meeting of 1879, Mr Krauss was again Chairman and was also appointed for the following year From that time on to 1891 the records do not show who was Chairman, but it is certain that Mr John Thompson,

of Messrs Gillanders, Arbuthnot & Company, occupied the post for some years At the Annual Meeting of 1893, Mr Alexander Pennycuick, of Messrs Finlay, Fleming & Co, was Chairman and continued as such until some time in 1895, when he was succeeded by Mr G P Glendinning of the Bombay-Burma Trading Corpo ration. Limited For some years afterwards the Chairman was generally either Mr Pennycuick or Mr John Macgregor, of Messrs Macgregor & Company Other gentlemen who have occupied the Chair during recent vears are Mr D R Cameron, Mr J G Reddie, and Mr Charles Findlay, all of Messrs Bulloch Brothers & Company, Limited, Mr James G Findlay and Mr James P Hay, both of the Irrawaddy Flotilla Company, Ltd, Mr C H Wilson, of the Hongkong and Shanghai Banking Corporation, and Mr J R Halliday, of the Arracan Co, Ltd, the present Chairman

In 1906 the name of the Chamber was changed from the Rangoon Chamber of Commerce to the Burma

Chamber of Commerce



Indian Coal.

APART from its subsequent use for the production of power, coal is one of the most important minerals worked in India giving direct employment to about 150,000 persons, and its value at the place of consumption or port of export is greater than that of all other minerals taken together Besides this nearly the whole of the coal is employed in industrial processes in the country, under 10 per cent being exported to places outside India

Nearly all the coal is obtained from the formation known as the Gondwana system of strata corresponding in age to the Upper Carboniferous and in Bengal this occurs in a succession of isolated areas surrounded by crystalline rocks and extending along the vallex of the Damuda, commencing about 100 miles from

Calcutta

Another series of Gondwana areas is ranged along the valley of the Mahanadi, but coal is only being worked in the Mahanadi group at Umariah in the Rewa

Gondwana rocks also occur in the valley of the Godaveri and Wardha rivers and extend to the Chanda district

There are also the Satpura Coalfields, in the Central The extent of the Gondwana rocks is here not known as it extends under the Deccan trap, which also overlies a portion of the Godaveri Gondwanas

The quantity of coal mined last year (1908) was about 6 times the quantity mined 20 years ago and the increase in recent years has been very rapid, as the table on page 383 will show Indian coal has now displaced imported coal for most purposes the total imports of coal being only 2 or 3 per cent of the quantity raised. More than usual was required from abroad last year (and is being imported this year also) on account of the production from the Indian mines not being sufficient for the requirements of the country

A considerable quantity of wood fuel is still used on some of the Indian Railways, chiefly the North-Western Railway, the Madras and Southern Mahratta Railway, and the Burma Railway, but this is being gradually displaced by coal, the consumption of wood

having been reduced as follows -

1903	497,185	tons
1904	395,297	,,
1905	253,093	"
1906	248,224	,,
1907	189,488	,,
1908	165,085	,,

The Indian coal mines for the most part consist of inclines cut into the outcrops where they appear on the surface In comparatively few cases pits have been sunk, and no pits exceed about 800 feet in depth The pits are usually equipped with appropriate machinery for raising coal but many inclines have no hauling machinery it all while many others have hauling machines of small power and old pattern

Coal can be carried out of the inclines in baskets from a distance depending upon the gradient of as much as 500 feet, and this is the method adopted in a great number of small collieries owing generally to

want of capital on the part of the owners

The Indian coal trade has dways suffered from deficiency of transport facilities. Rolling stock is provided for Indian Railways not so as to meet any demand that is likely to occur but so as to carry with difficulty the traffic of an ordinary year consequently at the time of greatest traffic that is after the grain and seed crops are harvested, there is more traffic than the railway can take and stacks of bags awaiting transport may be seen at all railway stations whence grain and seeds are forwarded Wagons are withdrawn from the coal trade in the endeavour to keep pace with the other traffic offered although such times happen also to be times of greatest coal production. The period when the rolling stock is deficient used to be only a month or two in April and May but gradually this has extended until from September 1907 to September 1908, the principal coal carrying railway, the East Indian Railway, was unable to supply on any single day during the whole 12 months, the number of wagons required by collieries for the despatch of their coal This year, in the reaction that has followed the coal boom of the last three years the railway is for the first time able to meet the needs of the trade in the busy Trade depression has so reduced the coal demanded that the railways have been able to overtake the requirements of the coal transport

The want of transport facilities has injuriously affected the coal trade in several ways. It compels the mine owner to stock part of his output at the pit head or incline mouth, instead of despatching it as it is raised and on this account it prevents the installation of appliances for rapid and economical handling of the coal It is not worth while for a mine owner to pay for apparatus which can directly load the coal into wagons at a minimum cost, because, when the coal comes up out of the mine, wagons are probably not available Practically the whole of the coal mined in Bengal is therefore dumped on the ground at the mine to wait the time when the railway may be able to provide for its

Shortage of wagons, by preventing the coal from being cleared from the mine, makes it impossible for the mine manager to know exactly what his output really is, and when the time comes to despatch the coal so stacked on the ground, it sometimes happens that there is a very large discrepancy between the quantity supposed to have been raised and the quantity actually despatched Meanwhile there may have been a change

established for those engaged in trading pursuits, the membership is not confined to any class Club house is lighted throughout by electricity and electric fans are provided In everything that concerns the progress of the

Harbour Works, the Association has from the first displayed keen interest, and now that the work in hand Is nearing completion, the Association can look back as nearing completion, the Association can look back with pride on the Part it has played in the long drawn out struggle with adverse circumstances and lack of necessary funds ecessary jungs
In 1904 the amended Municipal Act for the city of

Madras was Passed, by which the Madras Trades Asso-Clation was empowered to appoint three of its members as Municipal Commissioners to help in the conduct of as Municipal Commissioners to neip in the conduct of municipal affairs. Although we gather that the representatives of the Association are not altogether satisfied with municipal progress in their city, the reports of the work done serve to show that they at reports of the work done serve to snow that they at unthankful duties, and have devoted those energies they have been alive to the needs of the city, but as municipalities are constituted in India, such men often in such a small municipanties are constituted in india, such men must always be in a minority often in such a small must always be in a minority often in such a small that maffare with which the representative made The matters With Which the representatives have have have have any lear progress verify made themselves have have have a mainly works of Ine matters with which the representatives have been mainly works public utility, such as ambulances, hospitals, the water-supply, the housing of the poor and the erection the actablishment of minimal of model parcherries, the establishment of municipal dandle bringing into operation a Food and Dringe of model parchernes, the establishment of industribate Milk depôts, bringing into operation a Food and Drugs of the etreafe the Adulteration Act, the watering of the streets, the many everent in concerted Adulteration Act, the watering of the streets, the marks and in this last comparison areas the question of parts, and in this last connexion arose the question of the tram lines through Mount Road the parts, and in this last connexion arose the question of principal thoroughfare. The members of the Association of cuch a course and principal inorougniare Ine members of the Association, generally, were in favour of such a course and the coheme of strongly their representatives supported the scheme so strongly on the Municipal Council that it was adopted the Madras Municipality, as with other big Municipality, as many question is one of money Palities in India, the main question is one of money An enormously costly drainage scheme has been in hand for several years past, and this has practically wattu for several years past, and this has platitudly small the available revenue. And on the top of this another large scheme of pressing necessity has been undertal an namely the improvement of has been undertaken, namely, the improvement of the Corporation are being taxed to the utmost to finance this scheme, and it has been found necessary to raise most of the taxes to the most of the The resources of the Corporation the tales to the maximum allowed by the Act, and to cast about for other sources of revenue But have have had to be provided for despite all this, funds have had to be provided for the desirable improvements and it was owing to the other desirable improvements, and it was owing to the strong representations made by the Trades Associastrong representations made by the Trades Association that a fully-actioned by the Trades associations for infactions tion that a fully-equipped hospital for infectious diseases for European nationate has been established. discases for European patients has been established, and that another conforming diseases hospital has been and that another contagious diseases hospital has been erected man the northern limits of the city. The eserected near the northern limits of the city tablishment of municipal milk depôts in various parts of the city, and the allotment of a sum of Rs 10,000 to establish a Municipal Taboratory for commencing the establish a Municipal Laboratory for commencing the process of the Food and Work necessitated by the passing of the Food and hrought about Drugs Adulteration Act were largely brought about

through the efforts of the Association, and much other work of a useful, though comparatively unim-Portant, nature must be credited to the same source

In 1905 the Committee of the Association held In 1905 the Committee of the Association held conference with two Committees of Boards which Passed through Madras on tour The first which two of the Trades Association in March In the follows. tives of the Trades Association in March In the following July the Railway Board met the delegates from the Association at the office of the Chamber of Commerce, Association at the office of the chamber of committee appointed by the Depart when the Stores Committee appointed by the Department of Commerce and Industry to investigate the question of the supply of stores to the Government of question of the supply of stores to the Government of India, visited Madras early in the following year, no opportunity was afforded to the Trades Association for opportunity was anoraed to the trades association for the mambare. This question of the cumuly of ance to its members. This question of the supply of ance to its members—inis question of the supply of traders and manufacturers all over India are unable to regard with equanimity the despatch of orders for to regard with equanimity the despatch of orders for manufacturers and Agents in England, who reap a manuacturers and Agents in Lugianu, who leap a benefit denied to those who spend their lives and invest their capital in the country As regards imported vest their capital in the country As regards impured stores, the Government, while opening the door very contend that they stores, the Government, while opening the door very slightly to traders in India, still contend that they must buy where they can procure most advantageously, and this they appear to think is through the India and this they appear to think is through the india was given no appartment. As above stated, the Association was given no opportunity to discuss matters with, on to give evidence before the Stores Committee, but one of the members in the course of a speech subsequently of the members in the course of a speech subsequently delivered at the Annual Meeting of the Association, gave a concrete instance of the method by which the Government effected its economies few weeks," he said, "I have myself had an instance of a small survey instrument which is bought by the

of a small survey instrument which is bought by the Government of India for 45-5 at Home, while I am have a proceed we complex instrument made for 250. having a precisely similar instrument made for 355" In 1907 the Association was asked for an expression of its views regarding the measures proposed with the of its views regarding the measures proposed with the view of giving the people of India wider opportunities of expressing their Judgment on administrative matters We do not gather that the Association was very anthusiastic over the proposale but with regard to We do not gather that the Association was very the seventeen non-official members of the enlarged Councils, to be selected by certain specified bodies, they Councils, to be selected by certain specified volumes, they suggested that the Trades Association should be It was pointed out that suggested that the trades Association should be represented on the Council It was pointed out that represented on the Council It was pointed out that represented on the Councils Act, it was open to His Act, it was open to His Excellency the Governor of Madras to appoint one representative on the recommendation of such association or associations of merchants, manufacturers or tradesmen as the Governor-in-Council may from time to time prescribe Since the passing of the Act in man confined to members of the Madrae Chambar of been confined to members of the Madras Chamber of Deen connined to members of the madras chamber of Commerce, and in the new scheme it was proposed to Commerce, and in the new scheme it was proposed to shut out the trading interests by giving the seat absorbed to the Chamber. The Accordation therefore are Sout our the traums interests by giving the sear absorbed against the proposal and claimed that in the Interly to the Chamber The Association therefore protested against the proposal and claimed that in the interaction that in the tested against the proposal and claimed that in the interests it represented it was entitled to an equal share

expense of the railways In the supply of wagons, too, the smallest collieries are specially favoured. When, as has so often been the case, there are not enough wagons available to carry the output of all collieries, and only enough wagons can be supplied to remove, say three-quarters of the output, what actually happens is that the colliery which requires twenty wagons a day only receives 15, but the colliery which asks for one wagon at a time either every day or every second or third day receives the one wagon because it is impossible to supply three-quarters of a wagon

The railway lines being laid out specially with a view to the convenience of the very small collieries, they are more expensively constructed than they would have been if they had regarded only the collieries with larger areas and larger output, and the interest on this added capital cost is an appreciable addition to the annual

working expenses

The distribution of wagons to the collieries from the railway stations in the coalfields is an exceedingly slow process because of the inconveniently arranged network of lines that have been built for the purpose, and because of the large number of collieries, some having more than one siding, to which wagons have to be

<up>hied

The actual cost of putting wagons into a collier siding is much the same, whether there are twenty wagons or only one wagon and the time occupied by the operation is also much the same and therefore the working of the traffic of the small collieries is more expensive both in original cost of construction and in subsequent working expenses than the traffic of the larger collieries. Besides this the delay to all coal traffic, owing to the extreme slowness of the distribution and collection of wagons, is such that it takes as long to distribute wagons to collieries and collect them again as would be sufficient to haul a coal train (without stoppages) for some 400 miles. This delay to all traffic represents a further increase of working expenses.

Unfortunately for the East Indian Railway they have undertaken all this extra expenditure of capital and of continuous working expenses not only without any adequate corresponding return but actually without any return at all, for it cannot be supposed that they obtain the freight upon a single ton of coal more than they would if a quarter or more of the collieries did not exist. Ordinarily the larger collieries are able to supply all the coal the country requires and when they cannot do so it is for want of labour, the adjacent small colliery (by reason of its less depth or more open workings) being an attractive competitor for whatever labour the neighbour-

hood affords

An unfortunate result of the expensive manner in which the East Indian Railway has chosen to work the coal traffic is that it seeks to make its charges as high on coal as on certain other kinds of merchandise, eg, grain, instead of lower in proportion to the lower cost of transport of a mineral carried in full train loads, thereby making the larger collieries pay part of the cost of transport of the coal of the smaller collieries

The rates charged by the two principal coal carrying railways for coal are as under —

Coal is therefore booked for the undernoted distances it the following rates —

```
75 miles 0.318 anna pr ton per mile
200 , 0.27
500 0.167
```

These rates are lower than those charged for similar service in any other country varying as they do from a third of a penny per ton mile for the shortest bookings to one-fifth of a penny per ton for 500 miles with all additional distances charged at one-ninth of a penny per ton mile

Indian coal with one successful exception is mined on what is in Great Britain called the pillar and stall or the stoop and room system in which a series of parallel galleries are cut in two directions intersecting each other at right angles. This leaves square "pillars," as they are called of coal between the galleries, which are left standing to support the overlying strata.

In Great Britain coal is mined either on this system or on the longwall system in which a single gallery is driven and then widened indefinitely the coal being all taken out completely and nothing left standing the roof being supported by props or built up "cogs" of timber. When the widening has proceeded for some distance and a sufficient area cleared of coal the props furthest from the side that is being widened are removed and the roof allowed to fall in. This process is then continued, the cleared area being continually extended on one side, and the roof allowed to fall in on the other

Indian coal does not lend itself to longwall working for two reasons In the first place many of the seams are too thick for longwall working to be possible, only the thinnest seams now being worked being thin enough for this system and secondly the "roof" the next stratum immediately above the coal seam, is almost invariably far too hard to be dealt with in a longwall working What is required is that the roof should be of some fairly hard and tough material, that will yet bend and adapt itself under persistent pressure This permits the roof to be brought down as and when it is desired merely by removing the props Here, however, we often have a roof of a close grained sandstone, sometimes of the hard grey variety, an exceedingly strong material, and such a roof will not fall just whenever a prop is removed, but it will in some places remain up even though a considerable area is completely cleared Then, perhaps unexpectedly, the roof begins to "talk," to creak and groan, and very shortly afterwards, or perhaps not till some days have elapsed, the roof cracks and falls in with a roar, and enormous masses of stone tumble into the mines Such a roof it is impossible to control, props will not hold it in deep galleries in thick seams if it tends to fall, and until it cracks the removal of props does not bring it down

of mining contractor, possibly also a change of manager, and the mine owner finds that he has paid for coal which has not been raised A premium is, therefore, put upon dishonesty by the deficiency of transport faci-The excuse put forward by the railway is, of course, that the rise in the coal trade has been so rapid as to prevent sufficient provision for its transport and it is therefore interesting to compare the increase in the production of Japanese coal and of Indian coal

Figures are given below for the 22 years 1886, (when the Indian production was slightly greater than Japanese), to 1907—when the Japanese production was 23 per cent greater than Indian production quantity of coal required by India and by Japan respectively for their own consumption is generally about the same, but the Japanese exports are 3 or

PRODUCTION OF COAL

		JUN OF OO
	India	ION OF COAL
1886	_	JAPAN
1887	1,308,487	
1888	1,504.062	1,374,209
1889	1,708.002	1,746,296
1890	1,046 770	1,990,600
7090	2,168,521	2,350,206
1891	2,328,577	2,566,551
1892	2.525.6-6	3,124,803
1893	² ,537,696	3,149,857
1804	2,562,001	3,292,619
1805	2,823,907	1 222,019
1806	3,540,010	4,233,443
1807	3,862,668	4,733,861
8681	4 000 204	4,978,890
1899	4,008,106	5,145,613
1900	5,093,260	0.011.608
	0.118 602	0,067,161
1901	6,635,727	7,300 o68
1902	7,424,402	8,882.882
1903	7,438,386	9,586,832
1904	8,216,706	9,975,763
1905	8,210,700	10,599,710
1906	8,417,739	11,407,799
1907	9,783,251	13.042.05
1908	- 4147, 220	13,043,874
	14.700 ban	13,716,488
stribution	of the coal raised	
STIMAL-	Logical (BU)	

The distribution of the coal raised in India is peculiar, and an estimate was made by the Commerce and Industry Department of the Government of India of the consumption in different industries in 1907 as follows —

Rulways Port Trusts	indifferent industries in 19	of India of the
Bunker con! Inland steamers Jute Mills Cotton Mills Iron and Brass 1 Tea Gardens Consumers	3	3,474,000 91,000 1,100,000 450,000 667,000 794,000 131,000 96,000 1,100,000 2,824,000
	Total production	420,000 0 11,147,000 11

These figures were, of course, only intended as approvimate, and represent the first attempt made by a Government department to investigate the distribution of Indian coal, and subsequent inquiries have shown that in certain of the items regarding which information is the most difficult to obtain some correction is The consumption in inland steamers is stated as 450,000, but is nearer to 550,000 tons, and the consumption at collieries, placed at 10 per cent of the output, is greatly underestimated. The production of power at collieries for pumping, hauling, winding, etc., is alone responsible for a consumption of about ro per cent of the out ut (it is 6% in Great Britain) and besides this their is the large quantity wastefully used by the mining li our for the purpose of cooking and, in cold weather, warming themselves pay for the coal but take it as a perquisite the quantity burned in this way is very much greater than is necessary An average of 30 lbs per day per man employed at collieries is probably not an excessive estimate, this would have amounted in 1907 to about 350 000 tons The total quantity consumed at collieries was therefore probably 1,450,000 tons, and consequently the quantity taken for "other industrial and domestic consumption" was only 2 374,000 tons

The following table shows the number of collieries and their total output in each coalfield in 1907 -

- var out	111 In a- 1	mullippr of
Coalfields	at meach coa	Itield in 1907 —
Assam	Collieries	
Ranigani	6	Output
Kalmahal	157	^{295,795} tons
Giridih	3 6	31961,059 ,,
Jherriah		²⁵⁷ ,,
Palamau Rainnt	167	5,179,185
Rajputana Umaria	I T	81.872
Puniah	1	28,062
Beluchistan	8	178,588
Central Province	11	00,749
	4	42,488 134,088
Judged by European	1	414,221
iremol	SIDnd	17 T W L

Judged by European standards, Indian collieries are extremely small smaller even than appears from statistical statements because with one or two exceptions, collieries the output of which reaches 100,000 tons or over are really groups of mines and consist of a num-

Of the 356 Indian collieries which produced coal in 1907, the latest year for which detailed statistics are available, one-quarter raised under 10 tons per day one-third raised under 20 tons per day, and 252 raised under 100 tons per day only 104 or two-sevenths of the total number having raised as much as 100 tons

The multiplication of small collieries in the Raniganj and Jherria coalfields is to a great extent due to the fostering care of the East Indian Railway been the consistent policy of the East Indian Railway to cater especially for the collieries of the smallest size The larger collieries have to pay about half the cost of constructing the sidings they require and to pay interest to the railway on the remaining half, but collieries too small to be able to afford to construct sidings for themselves have sidings constructed for them at the

the roll work tar and ammonia are more and The contact and anymomia are recontened The Production of Socious of the production of Socious Covers to these en dasutation conference 20 describe The state of the time to the profession Abole Cost of operation The second erection the second the cost of The state after the arrangement of a second training of the after the arrangement of the construction of the arrangement of the construction of th er carlos seconos esta primeira esta esta o procesa o conseguente de esta o conseguente The second of th - orange of exercise in see enough of one along - Diedoure -eco e- orens its strengly of corens in The curve of the contract of t The control of the anomiotic phonesis and the control of the contr con the service of the service of the property about to ner cent the sear percentage of to atles the child

The mark of an an analysis and The residence of the parties and the collection of the collection Single Battle are Cramare wally seried energy STATE OF THE CONTROL Promises and the Upper Promises with a rest and

Some c: tre lepoir 3 accommodated in Lines or Some C: The leading a succession of the greater property out the greater property out the greater property of the greater prop Karms and Merrans TOURS ELECTED UP THE COMES FROM THE STREET AND THE COMES FROM THE COMES FROM THE COMES FROM THE COMES OF THE COMES FROM THE CO THE STATE THE STREET AND THE STREET S and encertors to make their and the contract of the contract o of local or many labour to settle Ca I so as to rave er jarge e religion es dossigne mour al cu to grad

I LET THE THE THE WOLVE TO THE THE the sport reduced by the mines To very many mines the men work in 20 yours Ther so eating and steening as their fanct contains earn's and steeping as their factor where our one our mio the mine at whatever com they was and come our mio the mine at whatever come they was and come our mio they was a factor of the mine at which we have the mine of the mine at which we have the mine of EST WAS THE TIME A WALENE AND AND THE PART OF THE PART Source that the mining of as the work as they wan There is no compute on on any or the none of the receipt of the points. Here is There is no company to the to the total of t The Country of the Co MONO OF THE CHARLES OF THE 1200TH TO THORSE MOUNT LESS THE COLUMN THE LESSON TO MITCH

tre, are accretomed pur at a rate per tra fled a Tre conductions are pur at a rate per tra fled a To foliais non not to two times of a ton and the THE POLITIES THE SABOLE THE EXPLANT OF A TON THE THE and a less amount .or size.

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The British practice in working the pillar and stall system is to cut away the coal in the pillars also as soon as the galleries have advanced sufficiently for to make the operation safe, and so to take out as much of the coal as possible A certain amount of coal has to be left in the mine, in any system of working, as barriers or boundaries, to keep out water or fire, and to support the superincumbent strata in the immediate vicinity of haulage roads main galleries and pits, which would be in danger of being choked up and the ways into and out of the mine blocked if solid pillars or barriers of coal of sufficient dimensions were not left to protect Losses from these causes are in many cases not more than 5 per cent of the total coal, as in Somerset and some of the South Wales seams, and some parts of Fifeshire and of South Yorkshire which are worked on the longwall system

The practicable limit of thickness of seam for longwall working is 7 feet above that thickness it becomes more and more dangerous, at the places where thicker seams are worked on this system great care has to be Thicker seams have to be worked on the pillar and stall system (or only a portion of the seam is worked) and the proportion of coal left unworked is often large, but the losses are not so much due to inherent defects in the pillar and stall system as to local difficulties, eg, the inflammability of the coal as in the Dysart Main and Lochgelly seams in Fifeshire where 40 per cent is lost the support of the surface as at Castleford where over 20 per cent is lost, the losses due to faults and washouts as in parts of Derbyshire where 15 or 20 per cent is lost from this cause, the near approach of two seams to each other making it impossible to get both as where the Crow coal is close above the main band in Cumberland, or the inundation of a colliery by an estuary or the sea breaking into it

In India even where none of these difficulties occur the proportion of the coal mined to the total quantity of coal in a seam within the area worked is considerably less than in Great Britain and the losses in coal that is abandoned unworked are very much greater is not usual to make any attempt to mine the coal left in the pillars, but the whole mine is cut into a rectangular network of galleries with the pillars left standing As the work proceeds, the pillars are thinned, "robbed" as it is called as far as is considered safe or expedient, and are then left altogether The quantity of coal so left in pillars varies according to the hardness and strength of the coal and the nature of the overlying strata, but is seldom much less than 40 per cent even in thin seams, and in thick seams is often 50 per cent, sometimes even more The difficulty in working thick seams, from, say, 20 to 30 feet in thickness, is very great, and it is not likely that in any mine a seam as thick as 25 feet will be mined with less loss of coal than 25 per cent of the total but it is by no means certain that it would be profitable at present to take out as much as 75 per cent of a seam of this thick-There is often a positive financial disadvantage to the mine owner in getting out the utmost possible percentage of his coal, it is cheaper to move on to a part of the seam that is more accessible rather than to endeavour to minimise the quantity that is abandoned as unworkable

As the working of a mine progresses, a considerable area is left worked out with the pillars standing, and as the pillars have been thinned until the strength of the pillars is taxed to support the strata above, a condition of almost unstable equilibrium is gradually brought There is then some fear that the pillars may at any moment prove unequal to the task demanded of them, and that they will be crushed under the enormous weight they cannot support, and in such a crush the coal will be greatly heated and is very likely to ignite and the mine to be set on fire Generally speaking, no precautions are taken to prevent a fire from spreading over the whole mine, by leaving solid barriers of coal at intervals so as to confine a fire to the part of the mine in which it originates, and when a fire occurs in such open workings, the whole of the mine in which the fire appears must be abandoned until the fire burns itself out when it will probably be not worth reopening

I fall of roof over an area left vacant by the removal of several pillars displaces a great body of air, and places this air under a considerable pressure, because the suddenness of the fall increases the air pressure more rapidly than the air can find its way into the galleries and out of the mine so as to relieve the pressure, and when the area over which a fall takes place is sufficiently large, the air so displaced and driven along the galleries under pressure and at great speed, constitutes an air blast, which sometimes has serious effects All moveable articles, such as coal tubs, timber, small coal, and men are hurled along the galleries and thrown to surprising distances, and the cages have been flung up the shaft and in falling again broken the rope and dropped to the bottom of the shaft and been smashed The air blast is a kind of accident to which Indian mines will be more and more liable as larger and larger areas are left supported by thinned pillars, and in many cases mining leases do not permit the "drawing" or working out of pillars so that the convenience of those who direct the mining operations and the requirements of the ground landlord alike contribute to a system of working which is wasteful of the resources of the country and has serious elements of danger

No statistics are available of the quantity of coke With few exceptions coke is made in made in India open "ovens" consisting merely of a rectangular space enclosed within four low walls. This filled level with the tops of the walls with small coal and dust, and then fired through small openings that are left in the bottoms of the walls, is allowed to smoulder and burn until it is considered to have coked sufficiently, and then water is poured onto it. This process results in a maximum production of some 40 per cent or so of coke from a coal which in the laboratory gives over 70 per cent Even this is entirely dependent on a personal factor. and often the judgment of the person in charge of the coke ovens is defective, with the result that the coal is insufficiently coked or is excessively burnt, or the coal was not properly stacked in the oven, or it was irregularly fired, and consequently this percentage cannot be depended upon in many cases. The yield of coke is therefore almost always low and the quality poor

The East Indian Railway at their colliery in the Giridih coalfield, north of the Raniganj field, have

Cultivation of Rhea in India

Bochmerit Anci i nettle Viriety in digenous to Northern China the Strate and Issum in which latter place natives use its libre for halling nets. For many years past the strength and be unty of

the fibre Velded by various species of Urtica have been fully recognised as superior in every respect to ill known there either for text le or other m mulicture. known nores either for text le or other manufactures. The fibre technically known is Rhei, or Ramic Negative fibre technically straightforward discours of experts and inventors who have straightforward discourse discour of experts and inventors, who have struct to discover some means of separating it from the bark and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely and the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the world of the plant to which it closely are the which it wood of the plant to which it clock idhere, and to free it from the resinous or gumms matter in which

Dr Royle, as Industrial Advisor to the India Office, who has had considerable experience with the fibre who has had considerable expensive Griss in the once summed up an account on Chin Griss in the following significant words it is enveloped improved methods of separating there are successfully improved methods of separating note and Wild Rhel, applied to such plants as the Rhel, and who realest the following significant cords the benefits to India and the vorld will be incalculable, for they are exceeded by none in fineness, (NCI) all others in strength, and may be fitly compared to the trunk of an elephant, which can pick up a needle

Notwithstanding the many failures, it may be confidently predicted that the time is not far distant when the difficulties of manufacture v II be a thing of or root up 2 tree The subject has now become one of very the past the subject has now become one of the keen interest to a greatly increasing number in widely divided places and without a doubt a splendid fortune awaits the inventor of a really effective and reasonably ledged on all hands to be one of the finest, if not, in the priced process for dealing with Rhen leugeu on an manus to be one of the finest of vegetable fibres, anguage of Royburgh, the finest of vegetable fibres, must some to the front and account to more and when must come to the front and assert its merits, and when this is so, India should not be behind in the matter When all difficulties of manufacture have been overcome, it will be solely a question of quantity in pro-

Rhea can be grown in unlimited quantities in and other Restances a duction n short, a planter's question India, Burma, the West Indies and other British possess ons, and has this advantage over cotton, flav, pussess one, and has this advantage over cotton, have etc, that once planted and in full growth, it gives from four to SIX crops a year for about a century, without other agricultural cost than irrigation, manure,

About 10,000 tons of fibre are produced in China, of which 4,000 tons are shipped to Europe under the thinning and cutting name of China Grass and the textile sold as Rame The balance of 6,000 tons is entirely consumed in China and Japan The Chinese strip the bark from the stame by hand and with a wooden I infectional Cnina and Japan the Cninese strip the park from the stems by hand, and with a wooden knife-shaped instrument they scrape the bark which covers the

the, runs it in the streams or recers and dreat in the sun The China Grass has co for been gro ness m on son the control of their buts and after the chestely by all recommend their buts and after the consister to a reasonable control of the chall family client to men and th liten collecting round their home, make thems kee chancing to the form of the fo middlemen collect the dry fibre from the y ll feet and send it to Shanaha Proches and it to Shanghu Toochos and other centres then at is biled and shipped the finals of twill decort cate thout too stems taken there is shout in more nour coo sums cars representing 3 pour 15 pence, the value of which in Puropi. Is about 15 pence, the or probably only half that amount for the gro Industry it that rate v is bound to remain a most limit ed one, in the to provide a living to the community The Government of India realising the importance the Industry ould the if the plant could be rised and the nbre produced on in industrial scale offered about and produced on in managers for the invention of 1 machine cip the of decorticiting large quantities of Rhea it a low cost Innumerable very the michaes that it a low cost is a low cost of the michaes that the michaes the michaes the michaes that the michaes the micha that were put forward but none of them y is found sutthe ind the premium v is a their in some 10 years one and the premium visy tend iv a some to vened ago Since then M Tiure of Limoges, Trince invened in the some of the source of I michine which after many experiments after thousand and amount of the many experiments. and improvements, is now claimed to have solved the problem and to form the connecting link so long cought for between the grower of Rhe e and the sp mer and manufacturer of the fibre, and that its effect will be to place Rhea on the list of every-day textiles to be produced and util sed vithout difficulty in my desired quintity. The bittle has been long between the chemist and the mechanic concerning the role each has to play in the production of Physical and anti-the point has in the production of Rhe i ind, until the point his in the production of Rhe i ind, until the point his in the production of Rhe i ind, until the point his in the production of Rhe i ind, until the point his indicated and the indicated distribution definitely settled, the indicate distribution distribut magnificent qualities—strength, matrix and dveing capacity for taking colour by printing and dveing and for taking with other fibres—has been under a cloud. The manipulation of the stems in the dry a cloud. magnificent qualities—strength, lustre The manipulation of the stems in the dry state so long advocated has been definitely acknown ledged to be erroneous, experience having proved that to obtain the full advantages of the many brilliant quitations of the fibre the stores must be treated in the error attest of the fibre the stores must be treated in the error. tites of the fibre the stems must be treated in the green state The chemist has insisted that as little as possible must be done to the green stems by machinery, chamicals the main treatment to be carried out by chemicals.

The mechanic has referred that the short is a required. The mechanic has retorted that the fibre is scriously damaged by themical processes which take away its strength, its lustre, and its ductility, and that therefore machinery must play the important part, and so for machinery must play the important part, and so the many years the battle has been waged, first one side then the other graning the victory

The chemists have long ago found out how to disonnect the fibre from the wood and had and had connect the fibre from the wood and bark and having failed to do it it i cheap enough rate and without injuring its strength, the victory at presont must rest The coal mining industry has recently passed through a similar phase but the extension of coal mining and the meetings of the Mining and Geological Institute for the discussion of technical matters connected with mining have done a great deal to minimise the jealousies of the past, and permit us to hope that real and effective combination for all purposes for the benefit of the coal industry may some day be a realised fact

The most diverse opinions are expressed as to the quality of Indian coal compared with British coal, and it is exceedingly difficult to obtain really accurate data for comparison. Analyses are always made from small samples and the quality of Indian coal varies so greatly in different parts of the same seam that from any consignment or wagon load or even from any miner's tub,

two pieces may be selected differing to an unsuspected extent in calorific value. It is therefore improbable to the last degree that any sample selected represents even approximately the average value of the consignment or of the wagon load, and it is therefore still more impossible to judge of the average value of the output of a colliery from the analysis of a sample, no matter by whom selected

With much hesitation a number of analyses of Bengal coals (with a few from other countries for comparison) are given below, these are printed with the reservation that they prove nothing regarding the average value of the seams from which the samples were taken the average value of the seams may be considerably worse or may equally be better

	Vikum V min	Curlih	De hergli ir Kiniging	Kumredullin Rame, any	Mohyam Central Provinces	Sport I aluchi tan	Jherra et V c m	Anthricite S Wales	Inthrocute Lenn	Westphalin	Porch	Войстила	Bohemin Cannel	אורן חראו W	Merthyr S Wales	Pluck coal Staffs	I ignite, Hungary
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\ h	1 -	5	9 03	1 .5	0 3	-10	5 11	1 158	4 17	1 67	7 50	6.69	14.43	,0	1 40	10,	33
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Fixed Carbon	49 41	66 54	51 36	54 58	(4 80	63 ~0	60 3	61 36	(60	69 17	58 85	63 68	6 ₃ 88	45 99
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Ash	11 29	9 72	10 61	8 31	7 37	14 55	15 90	1 36	10 55	8 11	14 36	9 34	10 72	14 94
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been taken from it, excepting the 3 per cent fibre, that no further manuring will be necessary So far this has not been put into practice at any place, is no decorticating v couried on, on any scale Dalsing Serai tried manurg on experimental plots and the results were unong lit best as compared with other manures, but the pro-P rtion of manure, say of Rhea seeth, given per acre could not be estimated as to actual quantities in ulable per acre when once properly started. Dalsing Scrai and Mooktapore where 60 and 40 acres respectively have been worked on full crops have now a small supply of fermented refuse which will be used for manuring The leaves are stripped from the stems at time of cutting and left in the field on top of Rhen plant well-known fact that Rhea cannot stand water-logging was proved vith a vengeance when all the Rhea in lowlying land and in such parts of fields where water collected during the heavy September rains, was entirely annihilated, all the roots having become rotten throughout, and the fields show exactly where the water-logged by the gaps in the rows of Rhea plants Several hundred acres planted with Rhea in fields which were supposed to be safe from water-logging, hive thus been lost, and the planter has been trught in object lesson as to choice of land On the other hand, a minimum average of 45 inches seems to be necessiry to ensure proper development of the Rhei cultivation, and the experiment at Gopalpore and Rampore in Chuprah showed that no sufficient returns could be expected from these parts where the rainfall has not exceeded 35 inches on an average since 1902 The cultivation has been abandoned at both places and progress at the other places stands as follows —

Secured:	at Dalsing Serai	400	acres	against	500
,,	Pandoul	323	,,	_	500
,,	Bachour	390	,,		500
,,	Mooktapore	100	,,		300
,,	Mukwah	300	,,		500
,,	Turkoleah	340	,,		500
,,	Gokoolnugge	r 100	,,		300
	Total	1,953	acre	s 3	3 100

The planter has still to find out exactly the best time to cut the plant—from an economic point of view it looks as if it should pay best to cut the stems as soon as the fibre has become mature, so as to secure as many cuttings as possible, but it is not certain whether the stems will not contain a larger proportion of fibre as they are allowed to grow higher and become thicker on the other hand, there is the danger of the stems becoming woody, the decortication then become more difficult and the waste being enhanced, as also the fibre being brittle when too old, which has actually been established by spinners

So far the instructions with planters, based on the custom of China Grass manufacturers in China, are to cut the stems when they show a brownish tint up to about 10 inches from and above the ground. One of the problems connected with the Rhea Industry was the drying of the fibre, which contrary to Hemp and Jute contains, besides the moisture, about 30 per cent of gummy resinous matter which, in the moist climate between June and October, when the bulk of the Rhea

has to be worked off, it is utterly impossible to dry, except irtificially—this is being done by disposing of the water through a centrifugal hydro extractor and hanging up the fibre in relosed tunnel fed with hot air driven by an icro-condenser—Experiments carried on it the Dalsing Serai Factory have proved quite satisfactory—Rhea fibre being hydrophil in the extreme it has to be serieved into bales as soon as it leaves the dry tunnel to avoid its attracting fresh moisture and rotting when heaped or baled in a moist state.

1 Rhe i Factory comprises decorticating machinery under sheds with plenty of room to move about, centrifugal hydro-extractor drying tunnel with acro condenser under roof, large godowns to house the Rhea, and baling hand press also under roof 1 20-horscpower engine is sufficient to drive all the machinery required for a 500 acres factory. The fibre having to be thoroughly rinsed while passing the decorticators, a sufficient supply of water should be at hand stems should pass through the decorticators as soon as possible after being cut and no injury seems to be done if the operation takes place within 12 hours after that limit the stems are apt to dry up, and the decortication is rendered difficult if not impossible, the elisticity of the fresh plant, which, combined with the spring appliance of the machinery constitutes the principle of Faure decortication, having disappeared or been lessened in the time of Mahai a delay in bringing the stems to the Central Factory is upt to occur, the risk of losing plant has to be taken into account, and appears to be successfully avoided by keeping the stems that cannot be passed through the machine within 12 hours, under water in bundles of 30 to 40 stems until they can be Experiments up to 48 hours steeping decorticated showed that no injury was done and the decortication was as perfect as with fresh cut stems. The hydro extractor disposing of over 70 per cent of the water, it is not necessary when taking the fibre out of the centrifugal hydro-extractor, where it is brought straight from the decorticator, to twist the fibre before hanging it up in the drying tunnel with a view of wringing out the water the twisting leaves a wavy mark on the fibre which the spinners object to No beating of the fibre should take place either, as it is apt to break the fibre Parallelism of the fibre being one of the main points for the degummer and spinner it is essential that throughout the process of manufacturing, from passing through the decorticator to baling in hand presses, the fibre should be always kept straight and free of entanglement

It is evident that as the Industry progresses, the anomaly of shipping and paying freight for the 30 per cent gum which the fibre contains and which the spinner has to eliminate before he starts treating the fibre, will have to be dealt with. So far the spinners who have their own methods of degumming which all vary somewhat, and are all supposed to be the only right one, insist, one and all on the fibre supplied to them being free of chemical treatment of any kind, and will only buy it if in exactly same condition as the China Grass they import from China this applies to Ramie manufacturers, and it is expected that spinners of flax and linen will eventually take Rhea degumined locally

until spinning and weaving is done on the spot, and the manufactured material is shipped from India

with the machine, and so far the only machine that has given encouraging results, is Faure's, the monopoly of which has been acquired by the Bengal Rhea Syndicate, Ltd., Calcutta (Managing Agents, Messrs Jules Karpeles & Co), who are launching the industry in Behar. This is said to be the first attempt to work Rhea on a large scale and the Textile Industry in Europe and America is watching its progress with the keenest interest.

Rhea Tibre has not only proved to be superior to flax and linen, and almost equal to silk, it has latch been vorked into several new materials. We may mention among the most prominent ones the imitation stray playts, to manufacture ladies' hats. Stray takes the colour only on the surface, and the sun and seaside breeze will after a few days leave very little of even the deepest and fastest colours, whereas Rhea fibre pressed into plaits, after having been died through, vill resist anything and never lose its colour. It has been found also that incandescent Gas or Kerosine-lamp mantles made out of Rhea, give a brighter light, are not so fragile, and consume 50 per cent less of them cals These two materials alone are supposed to represent more Rhea than India will be able to produce in the next five years, not to speak of the various materials that have always been mide out of Rhea-China Grass

Rhea cultivation was started experimentally by the Rhea Syndicate in 1900 at Dilaing Serii, Tirhoot, under Mr Bernard Coventry's supervision results were very promising, some 60,000 stems being raised per acre, and the plant attuining about 5 feet, 4 times a year, 1 c, one acre giving over 240,000 stems per annum. The 5 feet high plant, at which height it is considered to be ready for cutting, gives a veight of 20 pounds per hundred stems after the stripping of leaves Thus, one acre v as calculated to give 48,000 lbs of stems, from which 2g per cent dry fibre could be extracted (against 5 per cent contained in the stem) or 1,380 lbs per acre per annum The cost of cultivating the land and extracting, drying, biling and shipping the fibre having been approximately estimated, the figures arrived at showed that, assuming the crops to yield only 10 as, it is about 860 lbs per acre, or 21 acres to produce The margin between the price of £26 per ton at which there were buyers ready to contract for several thousand tons, and the cost of producing, would be such as to justify the launching of the industry on a large scale Contracts were passed with the following concerns to work jointly with the Syndicate, broadly on the basis that the concerns provide the land and management and the Syndicate provide all the machinery (being sole proprietors of Faure's Decorticator) and that all the expenses and profits be equally divided, namely

Dalsing Serai	/Durchungah)	roo leres
Paising Serai	(Durbungah)	500 acres
Mooktapore	(Somastipur)	300 acres
Pandoul	(Durbungah)	500 icres
Bachour	(Durbungah)	500 acres
Turcolealı	(Champarun)	500 acres
Mukwah	(Champarun)	500 acres
Gopalpore	(Chuprah)	300 acres
Rampore	(Chuprah)	300 acres
Gokoolnuggur	(Purneah)	300 acres

Great difficulty was experienced in finding roots to plant Rhen at the various factories Several consignments received from Assam, the Madras Presidency and from the Government Botanical Gardens in India. proved very disappointing, and in any case not sufficient to start on an industrial scale. The propagation had to be carried out from nurseries established at each place, and as neither the cultivation nor the nature of the soil required for proper growth of the Rhea plant were familiar to the planters entrusted with the work, they had to fight their way, and much time and unnecessary work was wasted Planting became general, ic, sufficient nurseries had been established at the above fretorics by end of 1903 when propagating was stirted on a somewhat extensive scale, it, about 50 acres being accounted for It became evident from the beginning that only light sandy soil would answer, and the roots failed to take in all sultpetre and ossa land great innoyance was caused by white ants atticking the young roots, and especially the young stem cuttings from which propagation was attempted with success, whenever white ants did not interfere planting during the rains disposed of this pest in many cases but in Champarun, planting from stem cuttings had to be abandoned, but was very successfully replaced by tops of roots which answered the identical purpose namely not to affect the existing plantation, by transplanting the roots bod ly and dividing it in small cuttings of roots for distribution over the new area to be planted Propagating from stems and from tops of roots taken from a field one or two years old, leaves that field undisturbed in its stage of progress Each plant his been shown to throw within a year from 15 to 30 shoots or stems, but to do so, the land has to be kept very clean of veeds, and wherever the cultivation has been neglected and weeds allowed to grow simultaneously with Rhen, the latter has invariably been slow in growing and in expanding. A field half weeded and half uncultivated gave 3 to 5 shoots in the uncultivated portion, and 10 to 15 in the cleaned portion

Nor is the use of a Tummany, or hoe ng of the field after each cutting, a sufficient cleaning in lands where weeds take rapid possession and propagate luvuriantly however costly it may prove, it will always pay in such lands to clean each plant by hand, ie, to eradicate the weeds around each plant, which cannot be done except by hand for fear of injuring the Rhea So far no land growing Rhea for upwards of 3 years has shown any signs of deterioration, where proper cultivation has been carried on the only symptom of root being affected by age, is in the top growing woody and preventing fresh shoots from coming through It is intended to chop off the woody parts of the root every year with a kodalee which will dispose of this objection and give fresh life to the plant

The question of manuring has not as yet been dealt with except at time of planting, when of course the plant grows best and quickest where manure (Indigo seeth) has been applied liberally Unmanured land gives very slow and poor results and would very soon be exhausted, the nettle variety being known to be most trying for the soil. It is generally admitted that since the leaves, the bark and the wood can be and should be restored to the land from the 4 cuttings, te, all that has

made in the country he largely spends in the country. All the factories belonging to this firm as well as the electric motor and engineering department are now under the management of Mr. Alexander Malcolm S. Abid, his younger son. Mr. A. M. S. Abid was born in India in the year 1884.

Works, Bedford, whence he passed out as a trained Mechanical and Electrical Engineer Mr Abid, junior, is skilled in all outdoor sports and is a keen Cricketer and Footballer. He is devoted to the Engineering profession in which he displays great ability. Mr A Abid's eldest son has adopted the

been a characteristic of the Ruling family in the Decean, and amongst the loyal hearted citizens who followed the example set by their Ruler, Messrs Abid & Co vere in no wise behindhand Their extensive bus ness premises at Chudderghat were flooded with electric light, and decorated with



THE HEAD OFFICE OF MESSES A ABID & CO HIDERABAD

and with his elder brother was sent to England for his education which was carried out at first under a private tutor until he was 12 years of age when he was sent to Clifton College On leaving school he was apprenticed for four years to Messrs W H Allen & Co, of the Queen's Engineering

law as his profession and is still in England

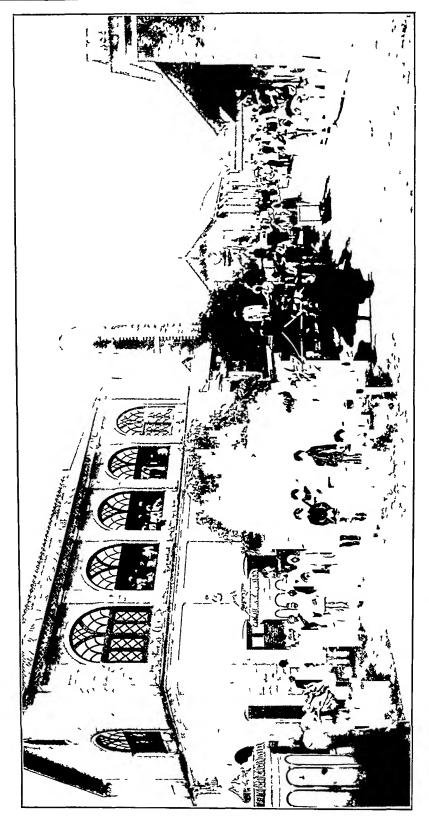
On the occasion of the celebration of the Jubilee of Her late Majesty the Queen-Empress in 1897, the opportunity was taken to perpet uate that thorough loyalty and sincere good feeling towards the British throne that has for long

numberless red globe lamps while over the main entrance was an illuminated transparency, showing the coat-of-arms of H H The Nizam The occasion was one of general rejoicing for which officials, merchants, tradespeople and the public generally had made great preparations Every palace, house

Commercial & Industrial.







Messis A Vbid & Co's Ici and Miniral Water Factories, Haderman

and shop made a display, alms were freely distributed to the needy, and there were general rejoicings throughout the Nizam's dominions. In the decoration of the city and the suburbs the firm of Abid & Co played a conspicuous part, and acted

distress caused by the floods. The terrible catastrophe that befell the State at the end of September, 1908, involved many thousands of people in swift and unexpected destruction, while the homes and property of

authorities would have found it impossible to cope with the distress that was encountered on every hand. A relief fund was promptly opened, and measures taken to keep down the price of grain. To all that was done to afford



Messrs A Abid & Co's Secunderabad Branch

throughout the period of rejoicing with their wonted liberality

On a more recent occasion the resources of the firm, in common with the wealthier classes generally, were called upon to help in the alleviation of the widespread

thousands of others were ruthlessly swept away. In this calamity, for which no living memory can find a parallel in India, the resources of the State were severely strained, and without the aid of public sprited individuals the

relief, Messrs Abid & Co accorded generous support, and in common with other citizens, joined efforts and co operated with the Government of the Nizam in relieving the prevailing suffering age of twenty and soon mastered all the varied subjects of his trade this alert mind was attracted to the remunerative coal business in india and he subsequently acquired illihari, Jeenagora Parbad Joyninpore Dhadka, katmarki and Madankatta Collicries, and is a partner in several other collicries. The coal mines under his control have been making handsome profits and his other varied branches of business have rapidly expanded under his guidance.

In 1906, he diverted his attention to Mill industry and, in collaboration with Mr. Vassonji Bhagwandas he floated the Mola and Mid-India Spinning, Weaving and Manufacturing Co., Ld. and this Company's Mills have already started working under very encouraging circum-

tances

Mr VASSONJI BHAGW \\D\S is a scion of the leading Bhatia family of Bombay founded by Seth Kima Govind, the family of which the late Mr Lakhmidas Khimji was so prominent a mem-This family is I nown for its great enterprise and resourcefulness both in matters communal and commercial, high integrity and charity Mr. Vassonji possesses in a marked degree the great and noble traits of his family in 1878 he received his education in the St Xavier's School and long before he completed his teens his natural aptitude towards commerce and industry led him to join the Mill Industry under the care of his cousin, Mr Dwarkadas Dharamsv, the well-known merchant and Sheriff of Bombay with whom he worked in connection with the Bombay Cotton Manufacturing Co, Ld, and Tricumdas Mills Co, Ld After acquiring a mature experience in the Will Industry under the fostering care of Mr Dwarkadas he separated from him to start an independent business in the

Coal and Mill Industry and m 1906 he floated a Company Lnovin as the Akola and Mid India Spinning, Weaving and Manufacturing Co., Ed. This Company started york by building mills at Akola in the Berurs with 21,000 spindles and 418 looms. The ceremony of



Mr. V. Billewands

starting the mills was performed by Mr Craw ford, the Deputy Commissioner of Akola, who is evencing much interest in the cruse of Indian industries

Ru Bihadur -/ XXV SWAMY MUDALIAR, Engineer and Contractor, Bugalore K-I-H Born in June 1849 at Bangalore Cantonment I ducated at the Mission High School, in the same city While still attending school he commenced business as a Contractor to Rulways, the Public Works Department and the Commissariat Dep irtment still follows this business which he has greatly enlarged course of his business he has erected many public buildings, among them the Public Offices Building He received the honour of the Kniser-1-Hind Medal, 2nd class, for carrying out the work in the erection of the above building to the satisfaction of Government Rai Bahadur Annaswamy has been connected with Municipal matters at Bangalore for more than twenty years, and during this period has served

continuously is a Municipal Commissioner of the Civil and Military Station. He is also a member of the Health Committee and the Standing Committee on which he has acted for some years. He is a Director of the Bang dore Bank and ilso of the "I mon Bink of Bingalore" Civil and Military Stition. The Ru Bahadur also deals in grun which he imports largely and disposes of throughout the Mysore State and to the Commisstreet Department. He gives employment to is many as 600 hands Ru Bilindur Annasy amy curned in enviable reputation for charaty and generosity. He has ever been foremost in helping the needs and has effected his contribut ons to the public good in the best and most effective number His meritorious charitable vorl ittricted the notice of the authorties and his title of Ru Bahadur vas bestoved upon him is a recognition of the service he has given to the cause of the poor. In the Civil and Military Stations of Bangalore he erected a building for a Dispensary of which he made a free gift to the Municipality. At the same time he don'ted two houses for Hospital Assistants. The value of this munificent gift vas Rs 15,000 He is not engaged in another most useful work which vill be of the greatest use to the community, the building of premises for primary education for all castes and creeds, which will be endowed by him Lately he acquired a piece of land in the Station at a cost of Rs 2,500 which he has made over to Government in the most public spirited manner for the purpose of connecting the new town extension with the Civil and Military Station In pursuance of the same objects for the public good the Rni Bahadui his also erected some fifty houses which he rents out at nominal rentals to assist the poor in the congested portions of the Civil and Military Station He has thoroughly earned in this and other ways the respect and esteem of his fellow townsmen and the honours that have been granted him by Government Rai Bahadur Annaswamy attended as a guest at his own expense the Coronation Durbar at Delhi, and for this he received the Delhi Durbar Coronation Medal

Messrs ABRAHAM & COM-PANY Estate and General Auctioneers, Furnishing Warehousemen and House Agents, South



Mr W ABRAHAM

Parade, Bangalore The firm are also proprietors of the Bangalore Commission Stables This business was originally established in the year 1863 by Mr Chapman under the style of "Chapman & Co" He carried it on alone for two years till 1865 when Messrs Abraham Brothers joined him in the business, and under the new partnership the style was changed to "Chapman and Abraham" Chapman's death occurred in 1867 and the firm's style was thereupon altered to its present designation This is the oldest established firm in this line in Bangalore and their business as Auctioneers and Commission Merchants is very large and extensive Messrs Abraham & Co also carry on a considerable business in furniture and cabinet manufacturing, giving employment in this department to a large number of hands They have also considerable interests in brewing, being connected with the Bangalore Brewery Company The sole surviving partner of Messrs Abraham & Co is now Mr Walter Abraham His three brothers who were originally partners with have deceased at various periods

Mr Walter Abraham now conducts the business of the firm entirely on his own account. He was born at Bellary where his father was in business as a Merchant and Distiller. He was educated at Bishop Cotton's School, Bangalore. He is at present a member of the Governing Committee of that school. He takes great interest in all local matters and is a Commissioner of the Civil and Military Municipality of Bangalore, and President of the Bowring Institute, and also a member of the Bench of Magistrates.

AKOLA & MID-INDIA SPINNING & WEAVING & MANUFACTURING Co, Ltd Registered in Bombay on July 23, 1906 with a capital of Rs 7,50,000 for the purpose of establishing Cotton Mills at Akola in Berar (a district which is generally fortunate in



Mr GOPAI DAS TRIKUNJEE

its cotton crop owing to the fact that a failure of the monsoon is seldom known in those parts), and in order to save railway freight, ginning, pressing and other charges by being in the centre of a country producing the raw material. The Mills were started on a bold scale, with 21,408 spindles and 418 looms, to take advantage of the favourable rates for machinery current at the time, and the latest improved principles were introduced in the plant

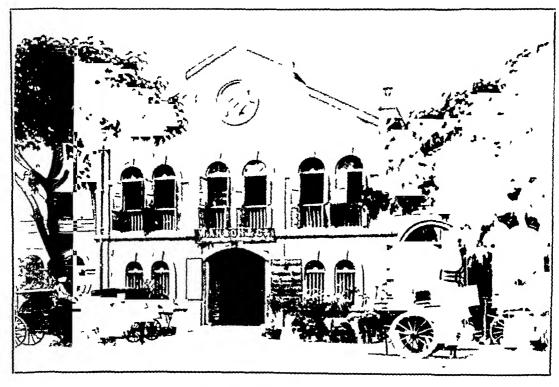
with which the Mills were started In consequence the result of the enterprise has been highly successful Great care has been exer-



Mr PFROZSHA K BAMJI

cised by the Directors in providing sanitary blocks of buildings adjacent to the Mills for the purpose of accommodating the Mill-hands Akola being a place where house accommodation is small and rents high. In this respect the Akola Mills are in a better position than the majority of Bombay Mill owners, who, owing to the rise in the value of land and their previous neglect of the subject of housing their workmen, find themselves now in a somewhat difficult position.

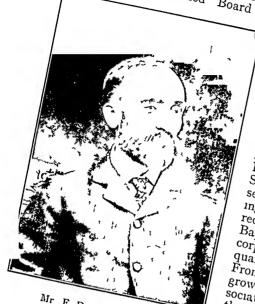
Mr Gopaldas Trikumjee is the Managing Partner in Bombay and Calcutta of the well-known firm of Trikumjee Jivandas He hails from the enterprising Bhatia community who have contributed so largely in expanding the trade of Bombay His father, the late Mr Trikumiee Irvandas, occupied a respected position in Cutch as loading merchant, and his business extended to various parts of India, Persia and Africa He opened firms at Cutch Anjar, Bombay, Karachi, Calcutta, Muscat, Busra, Naraingunge and Ranigunge Inheriting the keen commercial instinct of his father, Mr Gopaldas joined his father's firm at the early



Messes W Anson and Co, Kancoon

THL CYCLOPEDIA OF INDIA

The AMERICAN BAPTIST MISSIONARY UNION This Society dates from the year 1812 when the newly-formed Board of



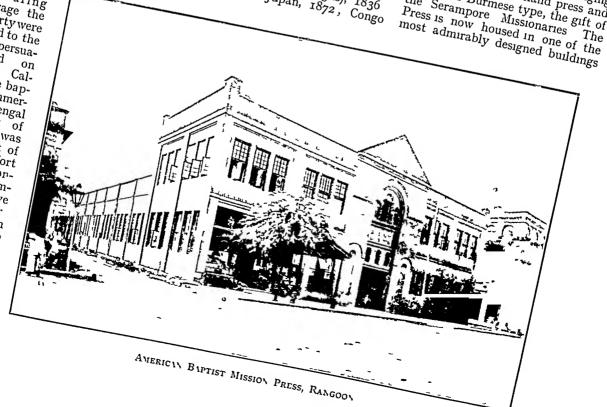
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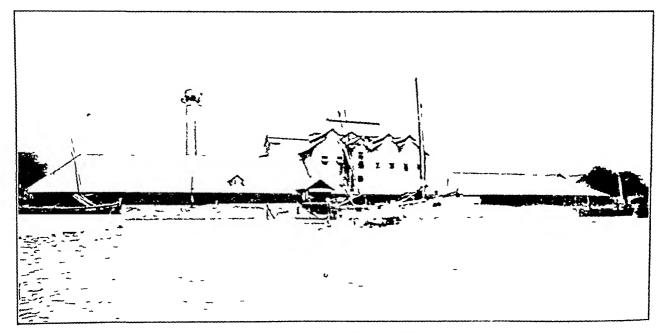
Commissioners for Foreign Missions in the United States of America sent out the Reverend Adoniram Judson and wife, and the Reverend Luther Rice, to India to start a Christian Mis-

sion D_{uring} the voyage the whole party were converted to the Baptist persuasion, and on arrival at Calcutta Were baptised by immersion The Bengal Government of those days was not tolerant of missionary effort and the missionaries were com-pelled to leave Rengal and Mrs Judson proceeded' Burma and took up mission work there, and Mr Rice returned to America to seek support from the Baptist Denomi

nation, since owing to their change of views, they could no longar look to the Congregationalists who had sent them out He received prompt and hearty and from the Baptists who took immediate steps to send temporary aid to the Judsons and their work In Way of 1814 the General Missionary Convention for Foreign Missions of the Baptist denomination was organised by a delegated body which met in Philadelphia, Pa, USA for the purpose The original organisation lasted till the year 1845, when the Baptists of the Southern American States withdrew and formed a separate Association In the following year the Convention was reorganised into the American Baptist Missionary Union an incorporated body, having its headquarters at Boston Mass U S A From such small beginnings has grown the present work of this As sociation which has become one of the leading missionary organisations of the world. The following missions succeeded the original one, mentioned above as the abortive attempt in Bengal—Burma 1814, Siam, 1833, Assam 1836, South India (among the Telugus), 1836 China, 1842, Japan, 1872, Congo

Land, Africa, 1884, Philippine Islands, 1900 The total number of Missionaries now working in India and Burma is 347, of whom 192 are in Burma, 100 in South India and 55 in Assam Of Medical Missionaries there are 23, of whom 13 are in Burma, 6 in South India, and 4 in Assam There are 1,909 native Workers in Burma, 1,496 in South India, and 283 in Assam The total number of native church members Itumber of native church members is 58,642 in Burma, 54,327 in South India, and 9,006 in Assam The Burma, 2,431 in South India, and 925 in Assam during the year 1906 and the pupils in their schools numbered 24,307 in Burma, 15 154 in Assam The American Baptist Mission Press, the publishing house of the American Baptist Missionary Union in Rangoon, has grown into an important institution It was commenced in the year 1816, the first missionary printer being the Reverend George H Hough, who arrived in Rangoon in that year bringing with him a wooden hand press and a fount of Burmese type, the gift of the Serampore Missionaries The





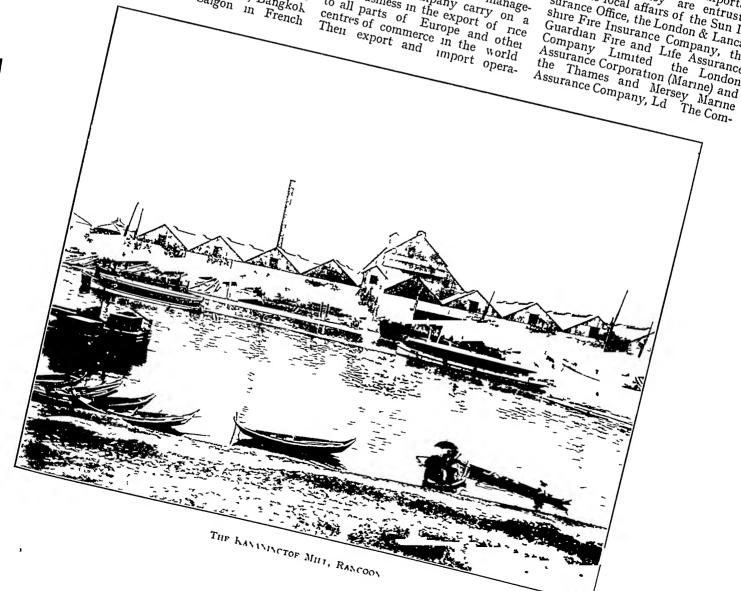
THE ARRACAN CO'S MILLS AT DALBONG

1876, he came to Rangoon and engaged in the business of training horses, etc., and finally purchasing the firm of W Anson & Co, embarked in his present business, which he has so greatly improved and extended that he has made it one of the leading firms in the city He does a large business for the local Government in auctioneering

The ARRACAN Rangoon Phayre, Street Rice Millers 74, General Merchants and Agents General Merchants and Agents Head Office, 57½ Old Broad Street, Branch Offices have been established at Bassein, Akyab, Moulmein in Burma, Calcutta in India, Bangkok in Siam, and Saigon in French

Indo-China The Company is now of some 23 years' standing, having been formed in April 1885, for the Purpose of carrying on business as above They are Rice Millers on a large scale, and own in all nine large rice mills, three of which are situated at Rangoon, one at Moulmem, two at Bassein, two at Akyab and one at Bangkoh These mills are fine examples of modern methods of rice milling, being equipped with the most up to date machinery throughout The mill buildings are well and solidly constructed and all the mills are worked under European supervision and management The Company carry on a large business in the export of rice to all parts of Europe and other

tions however, are not confined to this staple, but include all kinds of general merchandise, in which a large and growing trade is springing up between Burma and the further East and European countries They also deal in teah and other descriptions of timber which they export from Burma to India In addition to their mercantile operations the Arracan Company carry on Agency business, in which they hold valuable Agencies for several important Companies They are entrusted with the local affairs of the Sun In-Surance Office, the London & Lancashire Fire Insurance Company, the Guardian Fire and Life Assurance Company, the Company Limited the London Thamas and Marine) and



attains of the Cruft and holds the 31st degree which he took in England He is Past District Grand Warden of the Cruft and Mark Past Principal Royal Arch Provincial Subprior Temple Malta Deputy Superintenlent General Red Cross He is on of the highest Masons in Burma

Messrs J I BACKOH NA Co. teneral Merchants Head Office 731 Merchant Street Rangoon Burma The firm deals principally in imports of piece goods hosary and hards are besides general merchandise. They also carry on in export business but on a smaller scile Mesers J I Brotofen & Co vice established in the vior 1502 by Messrs C Sixt and I Backeten Mr. Bickofen has since died ind the present partners are Mr. (Sixt and Mr. V. Zollikofer Mr. V. Blohm, the present manager came out as an assist int for the firm in the year 1895

Messrs BMIHIAAR & SON General Merchants and Auctioneurs Rangoon This firm vas established in 1857 by the late Mr B C II Balthazar, who was an Armenian of Ispahan in Persia Mr Balthazar migrated from Persia and landed at Bombay in company with his son in the year 1853 (the memorable year of the great earthquake from which large districts in Persia suffered so severely) At Bombay be started a small business in the general line, with which he did well About eighteen months later, hearing that there were better business prospects in Calcutta, he proceeded to that city, leaving his son to man age the business in Bombay The business Mr Balthazar started at Calcutta was in the general line and similar to his Bombay connection His first connection with Rangoon was established by personal visits to that port, to which he resorted periodically with such goods as found ready buyers He did business in this style until the increasing prosperity of his transactions rendered them too much for him to carry on alone He therefore sent to Bombay for his son, whom on his arrival in Calcutta, he despitched at once to Rangoon, he himself remaining in Calcutta to manage the local business, with less frequent visits to Rangoon The Burma

busines a pully in reason with the growing property of the to a smil Mr. Buther found it need its to bring his cound on Mr Samu I Balthwar november patter a the firm from Pet i i more hand can meded to come on the n creased by no of the firm. Mr Smull Bother arrest in Cal entry in the entry of iter typyons tody at St. Navir college joined by father soil brother in busin at fear, on in 1866. The firm diviestablished on such up toun! tion extended inder and in the prosperous could be of the bus nes and timber him election? on maces. Mr. Palthern or or Inoxing that he visite is in successors or so the of the father decided to refar in h returned to Persix in the very 187, where he deal two years letter. Mr. Cu Balthur continued the bust ness with his counger brother until the year 1991 hande don't let ferving his interests to his two ons Mr. Gregory C. Baltha p. 3 nd Mr Balthazar C Balthazar He former of thes vithdrev from the firm in 1907. Messrs. Bultha ir and Son ire thus one of the oblest established firms at Rancoon Besides currying on business is Merchants and Auctomers they in extensive I state in I Banking business receiving money for investment and retine is general and real estate agents, besides doing a large Import and Export business of every kind. The firm's affairs are now in the hands of Mr. Samuel Bulthazar, is semor partner, and Mr B (Bilthwar the second son of Mr. Car Bulthazur and nephev of Mr S Balthazar as junior Mr Samuel Bulthizur's two sons are at present studying in England The late Mr Balthazar senior, had also two duighters whose two sons and a grandson are also in the business

Mr ROGER BAGCHI of Bagchi & Co, Engineers and Contractors Ringoon, was born in India where he received his education as an engineer and gained practical experience in that profession, and also as a builder. In 1885, he decided to settle in Burma, and after the annexation of Upper Burma in 1887, he was engaged on

the contract, is of a parton of the lomeon Model of the rest of the parton of the lomeon Model of the rest of the month of the middle of the middle of the theory that the lower of the Mandale Mandale of the Mandale of the Mandale of the Mandale of the total of the rest of the contract


Mr. K. Buccin

by which he lost ib int 800 men. He carried out his contract however, in the face of difficulties to the entire satisfaction of the Linguiser. Mr. F. R. Bagley, who had every confidence in him. The strain of this work affected. Mr. Bagchi's health and he had to abandon active worl for the period of one vear, to recuperate. Returning to Mandalay at the end of this time he secured the contract for the construction of the embandment around Mandalay. The Vicerox's Ghat Road was his next contract. This was constructed at Bhamo Mithough the time allowed for this worl was 24 months, Mr. Bagchi pushed on the construction with

advantages offered in comfort speed and security, the passage money is low, being Rs 600 from Rangoon or Colombo to I ondon with proportion-Colombo to 1 oncom with proportion ate charges for intermediate poils Concessions of 10 and 15 per cent are made in cases of family parties

paying three and four full fares respectively Railway vouched for by Railway Companies, receive a reduction of 10 per cent on then passage money, and special employes, ternis are granted to bonn file any denomination, Hospital Nurses Sisters of Mercy, Nuns, Theatrical Companies, and also Egyptian officers, corresponding to a forting hilly. one the steamers sailing on alter-The service is a fortnightly nate Thursdays from Liverpool, and for this hilly from Rangoon, as per the published dates of sylling adverthe published dates of stiming daver-tised in the daily papers. The Liners carry the French and Egyptian trade hate can have and Egyptian Vails between Warscilles and Egypt, and between Suez and Colombo English Wails between Rangoon and carry supplementary Colombo and England The Line Colombo and Lingland The Line credit It was founded in the Jen Take Dalls. grandsons still retain the Control As originally established in those pre-steam days, the service consisted of sailing ships It was not till 1821 however that regular sailings to the East Indies were established In 1851 a steam service was substituted for sailing ships, and in July 1891 the present high class regular service of steamers was placed on the Ruma route, where it quickly established to rook is a great etap but not more to 1908 is a great step, but not more so than the step from the small Salling ships of those days to the

and are built and equipped lat in excess of the official rules, and the requirements of Francisch Admiralty, Francisch

of the Bibby Line has every advant-

Every ship

age of the modern ship-builder's art, they are fitted with six water-

Caution against fire is adopted, each hold being fitted with a powerful supply which an ample supply

steam from the boiler can be

the British Admiralty

turned on to stifle any conflagration Without removing the hatches All intending management in the manag particulars and trees and goods shippers can be procured from then Igents, the Procured from their above ment oned offices

eral Manager in the East for the Arracan Company, Ld 74 Phayre
Rangoon Wr Halliday s_{treet}

 ab_{0ut} during the sedson these numbers use to some 500 hands They employ regularly, and two Emopeans besides the Manager In 1903 the Company enlarged the scope of their operations by ship ping timber to their Calcutta house Ping timber to then Can in a nouse III Elliof Hill, the Winnger of the Ariacan Company Ld, was born in Ireland in the year 1862, and

received his education in Ireland, England and Scotland He came Out to Buima in 1881 and at first the old firm of Halliday Brothers When Halliday Brothers was vound up, the Arracan Com ping Ld, was formed to take over the mills and business of that firm Ine mus and dusiness of that him Halliday Brothers' crap lovces were taken over by the Company, and secretaric has use mounted in Assistants he was appointed in hand of the firm's branch It Woulmein managed the business at that centre en el Since For many vears he Served as a member of the Mont mein Municipality and has held the appointment of Honorary Magistrate since the year 1899 He is also a member of the Lepen Asylum Committee having been connected With this Institution Since It's inception in 1902 the With this Institution Government of



was born in Dumfriesshire, Scot-Was porn in Dunniriessnire, Scot-land, on 30th May 1872, and edu-cated privately He Joined the Ariacan Company in London as an present fleet, all steamers in which assistant, and after four years' hold the highest class at Lloyd's, assistant, and after four years training and office experience, he and are built and equipped far in was appointed to Burma where he first served as ass stant to the Company In 1897 he was pro moted to the Post of Sub-Manager, and after ten years, work in this appointed General Manager for the East in 1907 Halliday was Chairman of the for the Port of Rangoon for the Port of Rangoon

tight bulk-heads, and a double bottom extends the whole length of the vessel, minimising danger from collision or stranding Every pre-The ARRACAN COMPANY, Ld, Mill Proprietors and Merchants, Refablished (Branch) Moulmen In the Verr 1888 at first for the purpose of dealing in rice only 1895 the Company purchased the rice mill, where they now employ



 M_I $E_{LL_{IOT}}$ H_{ILI}

upon him the Kaiser-i-Hind Medal He takes a strong interest in the importance in Mondolly, ilso toods colverts etc. He takes givet interest in Freemasonia. He has one son who has taken high degrees it the University of Cambridge.

The BINGMORL BREWERY COMPANY Brevers and Multsters Sydney Road and Langford Road Bangalore The business vas or ginilly established in the axt es by Mr. Honey cll In 1901 the present Company was formed, consisting of Messrs Abraham & Co Mr Thomas Leishman Messrs Gungarada Chetti & Co and Messis Magandadeva and Chelviny Mudahir to carry on the concern. The new Company immediately improved the arrangements, commencing the breving of beer on scientific principles, for which purpose the latest inventions in plant and much nery were imported and ice plant v is laid down for refrigerating purposes. Inter on the bottling of beer under the chilling and cold storage process recognised as the latest and most approval method, was adopted There are extensive and up-to-date Mult houses attached to the Brewery Barley for malting is unported from the Central Provinces, but a large percent ige of Fighsh imported milt is also used in the manufacture of bottled beers. The brewery does a large and increasing business, supplying the MI tary messes, the Soldier's Club and Institutes and local demand

The BASSEIN PRESS, Bassem Burma L D'Attaides, Proprietor and Superintendent, Maung Po Chit, Manager Established in the early sixties of last century The weekly newspaper, The Bassein News, is published from this press Mr I D'Attaides, son of the late Mr C D'Attaides, one of the oldest residents of Bassem, and for many years a Municipal Commissioner of that town, Superintendent of the Bassein Press Editor of the Bassein News is a Pleader by profession, and was born in the year 1868 He was educated in Burma at first privately and later he attended the Government High School at Akyab under the Principalship of Mr J Simeon While still under Mr Simeon's tuition he was attached to the Akyah Orphan Press where he was employed originally as a "piepicker" In service with this press he rose from his original capacity to that of Munger of the Press and Editor of the Thyab Weekly Ideertiser and Procincial News Healso vent through a course of training in electro-plating book-binding carpentry and is a tin-smith. In the veir 1885 he adopted the scholastic profession and served as a schoolmaster for two years. In this period he was nominated for the subordinate Civil Service, but did not take up his appointment. He preferred to join the office of Messrs Moxlan and Eddis burs - it-lay Rangoon with whom he served for eight years Here he obtained his training in lay



Mr. I D'Arraines

He was at this time also employed is Private Secretary to Mr. Movlan who was the correspondent of the London Times in Buima Mr D'Attrides presed his legal examinations in the year 1894, and for the next two years he practised in Rangoon and for the same period as an advocate at Maubin In the year 1898 he transferred his practice to Bassein where he has been established as an advocate ever since and has built up a large and lucrative practice He is now one of the senior members of the Bar at Bassem and a member of the Bar Association He has also served for two terms as Municipal Commissioner in the town of his adoption Before he joined

the Bar Mr. D'Attudes vas the Managing Lehtor of the Bussein Weelly News and Adeitiser for some years. In the year 1996 he igun turned hs attent on to btera ture taking over the Sgan-Karen Press and started the Bassein News At that time the pre sivas in very lov water but under Mr. D. Att udes management it re-entered a per od of prosperity. It is now a first class institution and the Bussein News has attained a large circulation, and is very popular. Besides, printing, bool-binding etc. the Bassein Press undertake in-cell incous business, agencies, etc. A new three-storesed building for the pre-sis nov in course of crection wherein the machinery is to be vorled by electreity. Mr. D'Attudes has started in experi mental farm and ovars 500 acres of cultivable land outside Bassem for the supply of Bassem with eags poultry milk and firm produce This venture has received the recogint on of Government. He is a volunteer of long standing starting is a member of the Akvib Cidet Company In the third Burmese War he vas the only volunteer to offer his services to accompany the detacl ment sent to quell the disturbinces at Arikan. He was warded the Burmes var medal which was presented to him by General Ian Hamilton at a general parade at Ringoon Mr D'Attaides is now one of the largest land-owners in Bassein

Mr JOHN DOUGLAS BAYLA, Proprietor London and Burna Agency Commission Agents and Importers, Moulmon. Mr Bayly wis born in India and educated at the Doveton College Madras He is a grandson of the late Major Thos B yly, of the Connught Rangers, who was Commissioner, Judge, and Commandant in Caylon at the time of his death and great grandson of Dr Init, who was P M O in the Madras Presidency Mr Bayly came to Burma in the year 1863, and in that year entered Government service in the Post Office Department His services were subsequently transferred to the Recorder's Court, where he held the position of Registrar before he was 20 years of age. In addition to this office in the latter Court of the Judge of Moulmein, he was subsequently appointed Official Assignce and Assistant Judge of the

such rapidity that it was completed In nine months He had special facilities, as he was using his own steamers' to Rangoon in the year 1904 where Mr Bagchi Proceeded While engaged on this work he tendered for the contract for the construction of the Chief Court and the Rangoon General Hospital He had good recommendations from Mr 7 Rollo Superintending Calderari Mr D, and Count important Bagchi secured 400,000 The then Chief Engineer W D Wr Monteagle Mr Montengle

Jacob, desired the foundation stone to be laid in two months, time, and Mi Bagchi put this work through by 5tl May 1905, on which date the ceremony of laying the coiner stone was performed by the I lentenant-Governor, Sir Hugh Barnes nant-Governor, or ringh Barnes these contracts Mr Bagchi employed as many as 4,000 men The work is still proceeding He employs 3 Europe in supervising staff of six skilled men, besides Chinese, Burmese, and Madrassi oversceis For the purpose of burning his own

employment to about 1,800 men, and males about 10 million bricks innually The new General Hospital comprises twenty four buildings and the Chief Court five Bagchi carries through all his big Contracts alone having no partner and he personally supervises
to has received the congratulations of the Chief Engi neer, Mr. () C I ees, on the splendid brick-work he is putting into the buildings. It has also been highly



turned out in a day of 10 hours Mr A G Du Bern devoted himself to the management of the Ice Factory, having been specially train ed in Refrigeration Notwithstanding competition, the business grew till the original plant and premises proved too small In 1905 1 new factory, with the most up-to-date refrigerating plant and cold storage store, was built to the design and under the personal supervision of Mr A G Du Bern, on a prece of land 150 ft by 40 ft behind the Soolay Pagoda Road specially purchased for the purpose. The plant is on the Anhydrous Ammonia System and the building is fireproof, of brick and reinforced concrete. It is three storied, the room for tv o 6-inch tube wells, pumps, producers and other small gear being on the ground floor The engine room alongside contains a gas engine working the compressors which keep the cold store rooms it their proper temperature | The main engine is a Diescl Oil Engine of 80 horse-power burning Burma crude oil and work ng the Linde compressors for ice making Room has been provided for another engine of 120 horse-power which will bring the capacity of the plant up to 50 tons per day Ice and fish stores with a capacity of 300 tons are situated immediately south of the above There are store rooms over the pump rooms, and over the ice stores are the tanks in which ice blocks weighing 400 lbs are made. The top floor is entirely used for cold storage special care has been given to insulation necessary in the hot damp climate of Rangoon, teak tongued and grooved with P B paper and silicate cotton being used for this purpose Some 25,000 cubic feet of storage space is available, and there is left further capacity for extension by 50 per cent These factories are well placed, being under a quarter of a mile from the river and main railway station Despite the fact that they are both extremely busy men, Mr J E and Mr A G Du Bern have taken con siderable interest in public affairs Mr J E Du Bern is a Municipal Commissioner and Vice-President of the Municipal Committee, and Mr A G Du Bern is Honorary Secretary of the Burma Athletic Association, one of the best organizations of its kind in the East

The Late Babu JADAB CHAN-DRA BISWAS Proprietor, the Empress Aursery Narcoldinga Main Road, Calcutta Born in the year 1830. He commenced business life in the office of Messes Rentiers & Co. of Calcutta where he served for some years as book-



The life baby Jadan Chandra biswas

keeper. In the meanwhile he had established business for himself is an Import and Export merchant This business increasing in import ince he threw up his mercantile appointment to devote himself to its care. He was a good business man, thoroughly versed in English and in European methods, and under his management the busi ness flourished exceedingly and produced a large fortune for him Having i turn for botany and kindred subjects Jadab turned his attention to floriculture and horticulture, and in the year 1885 invested a large sum of money establishing the Empress at Narcoldanga spared no pains or outlay in the collecting of new and rare plants from all over the world, and the reputation of the Empress Nursery rapidly grew into importance He carried off numerous gold and silver medals with his exhibits of lare and beaut ful plants at various Exhibitions held at Calcutta, and gained the patronage of the most

exalted officials in the land of ord Lansdov ne v hen Governor-General of India honoured the Impress Sursery by two visits and gave Indah Babu a letter of appointment is his "Nurseryman and Florist" He also received a visit from Lord Roberts, at that time Commander-in Chief of India, which ils) resulted in a letter of appointment to the celebrated general Jadab Babu vas also appointed Nurscryman and Horist to H L Lord Ligin, Viceroy of Ind a With these credentials the Empress Nursery gained the support of all interested in horticulture. Unhary: Bihidur Sir Jitindra Mohan Ligore vas Jadab Bibu's greatest pitron and the present Mihiraji Sir Prodyat Coomar Lagore still Jadab patronises the Nursery Bibu took sreit interest in public life. He was for many veirs in Honorary Magistrate of the Scaldah Bench and also served as Commissioner and Vice-Chairman on the Manicktollah Municipality - He vas instrumental in introducing the filtered v iter-supply



Bibu ALUPLA CHANDEA BISWAS

Municipality which greatly benefited the residents. He established the "Thakur Baree" in the Narcoldanga Main Road, and made arrangements for the daily feeding of the poor. He died greatly

Small Cruse Court He filled all 1000 when he retired till the year Small Cruse Court 1900, when he retired He then visited England, where he resided for some time, returning to Burma in 1903 to embark in business In iddition to carrying on his above business Wr Bayly who was Manage ing Director of the Tenreserim Is a Director of the Burna Wotor free named company, La is a fr hrst named company has been

Messrs W 1 BE IRDSELL & Company, Wadras, established 1902 Importers of piece-goods and yarns They are Wanaging Agents for the Bobbih Mining Co Ld evporting from Vizagapatam manganese ore The London Agents for sale of ore tre Messrs K Littinger & Co, 40, Great Tower Street, E C

BLNGALIION CO 1 d STEIN VIIGI-in appendin I d see special notice

Messrs D BERV & COMPANY, Proprietors Diamond Ice and lerated Witer Factory, 6, Sooliy Pagoda Road, Rangoon Burma The supply of ice in Rangoon presented certain difficulties which led to several fulures among the Companies which at

tempted the enterprise Pho Tudor Company in Lewis Street was first in the field but was not successful the time Sir Ashley Eden was Chief Commissioner the Perseverance Company was started by Mr Jurry at the corner of Soolay Pagoda

Road and Fraser Street This was worked on the Ether system The Burma Ice and Aerated Water Factory at Ahlone was the next to come into existence working on the Immonia Absorption System The Company next commenced the supply of ice from the r Ether plant at Still the supply of ice was irregular and the price high, and another competitor appeared in the Rangoon Ice and lerated Water Factory erected at Dunneedaw on the Coleman

¹HE CYCLOPEDIA OF INDIA 1_{1r} System sidered scheme and never worked properly At this time the Imperial Ice Factory at Calcutta failed, and two of their Binary System mach nes were taken over to Rangoon and bought into operation there on the Ether system, under the name of the Distillery Ice and Verated Water Company By this time the Perse-Verance Ice Company and the Ran goon Ice Company one me wan The Burma Oil Company also ceased the supply of icc, and the field was left to the Burma Ice and the Distillery Ice Companies Owing to the limited supply available the Price of ice remained at one anna per pound at ordinary times 11s ng per pound at ordinary times the second three three the hot serson The opening thus offered attracted M. J. F. Du Bern who had previously been in Rangoon in the verts 1880 and 1887 and had been connected with the Crystal Company of Cylcutta In 1893 Mr Du Bern decided to open an ice and aeialed water factory at Rangoon, choosing 1 Site in Soolar Pagoda Road for merly occupied by the Perseverance

now well-known firm of Du Bern & Co, Proprietors of the Diamond Ice Factory Under the suidance of Mr J E Du Bern, Who had made a special study of the manufacture of rerated waters this branch of the business immediately took a leading position in the trade For the facilitation of the business a 2-inch tube well was bored in 1894 and 2 cop ous supply of pure water reached at about 200 feet below ground level This water supply ground level Inis water supply well protected from contam nation by several layers of clay, and the well is the first tube well struck within the limits of the town proper The proprietors also paid special combined with the mark of the washing of the combined with the nurse water read combined with the pure water used assured the postion of the now name of the well known Waters The original premises were not sufficiently large to keep pace With the growth of the bus ness, W_{neral} and in 1904 it was found necessary to purchase land alongside of them New buildings were erected, and these fine structures were erected, and and built by Vir J E Du Bern output was greatly extended



BRONSON'S WEST END HOTEL, Bangalore This fine establishment for residents and visitors at the cool and salubrious station of Pangelore consists of six fine buildings with specious verandahs overlooking beautiful



Mr ISIAC Bronson

gardens and three cottages There is a large din ng room, a spacious and lofty billiard room fitted with two of John W Robert's newest pattern full sized billiard tables,

and a drawing room, all furnished in up-todate style There is ac commodation for some fifty or more guests, the bed-rooms are large and airy with dressing rooms and bath-rooms attach-All parts of the hotel are lighted with electricity In the compound are established a bakery, a dairy and a establishment carriage and livery stable, and carriages and horses are supplied to guests at reasonable rates Good stabling is also provided for visitors' private horses, and a garage for motor cars The situation of the hotel is most It is on favourable the high ground and adjacent both to the Race

Course and the Golf I mks, between which it has, standing in its own nineteen acres of land which are well laid out with shady trees girdens tennis courts, golf Inks, and other amusements for the comfort of visitors. The surroundings are picturesque The Bangalore Railway Station is about one mile from the hotel, and there is a service of trains from both Bombay and Madras sides The Canton ment Raily as Station is distint one mile and a quarter. In the vicinity of the hotel are also the Cubbon Park and the Presidency Museum The Station of Bingilore is famous for good roads, pretty drives, and its excellent climite all the year round. It is elevated about 3,000 feet above sea-level The West End Hotel is a monument to the energy and resource of Mr. and Mrs Bronson, the proprietors It was started by Mrs Bronson is far back is the year 1887 in a small bungalov with accommodation of about eight rooms only Mr Bronson joined his vife in 1888 and is the enterprise proved successful, and the demand for accommodation justified further extension other bung flows were added. In this manner the hotel was carried on until the year 1905 when the first wing of the fine and spacious present buildings was opened for business subsequently the other buildings have been

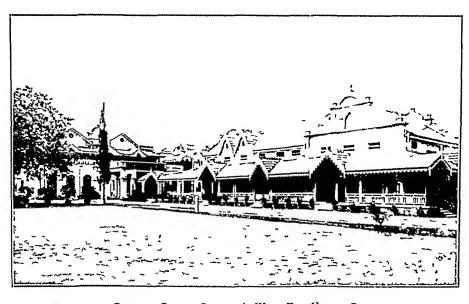
added and great improvements for the visitors regularly made

The whole site is now freehold property owned by Mr and Mrs. Bronson. Besides extering for visitors to Bangalore the proprietors are open to make arrangements for



Mrs. Brossos

inv of their guests who wish to visit Mysore the capital of the State of that name, and Seringapatam, famous in history for hard fought battles



DINING AND BILLIARD ROOMS, BRONSON'S WEST END HOTEL, BANCALORE

THE CYCLOPEDIA OF INDIA

respected on August 5, 1908, at the age of 78 years, leaving one sur-Biswas, whom he appointed by will his sole elecutor He also left five grandsons of whom Babus

Magistrate at Sealdah, and a Municipal Commissioner of the Manick tollah $\dot{M}unicipality$ Attunicipanty Inc. mas, mowever lately resigned these positions as the cares of business left him less and the lately to the mass and the lately resigned to the less time to devote to them He is sole proprietor of the firm of Horen Brothers of 80 A, and 81, Bentinch Street, Calcutta, where he carries on a flourishing business in bicycles and gramophones

Babu Nogendra Nath Biswas, now aged about 29 years, is the eldest son of Babu Apurva Chandra Biswas He is at present employed in attending to the collection of

The Grant Silver Medal (1886), the Countess of Dufferin Fund Silver Medal (1886), the Grant Silver Medal (1888), the Grant Silver Medal (1880), the Grant Suver negatives the Viceroy's Silver Medal dal (1892), the Maharaja of Cooch Behar's Gold Medal (1893) The Silver Medal for the best collection of palms (1892), the Agri-Horticultural Society of India's Special prize for a collection of plants exhibited at the Society's annual

Messrs F O BI OECH & Co., This Live and Control Merchants, Rungoon This business was established by the Irte Mr Fred O Blocch in the year 1887, and was also carried on at Calcutta for a time Vr F O Blocch continued to carry on the ousiness till his death which edwin of Bloech, who had assisted his fither for some years in the management of the business, took Over charge of the affairs on his father's death offices in I ondon and I gents in cvery place of importance in Burma, altogether about twenty The firm have



Bibu Jitindri Vath Biswis Nogendra Nath Biswas, Jatindra Nath Biswas, and Horendra Nath Biswas have come of age, and are tending the managed in superintending the mandgement of the Empress Nursery and in looking after the Thakui Baree where a dozen mendicants are daily fed Babu Apurva Chandra Biswas only surviving son of the late Babu Jadab Chandra Biswas, is Pow about 52 Jears of age and devotes himself to the management of the estate left by his father Under his able management the Empress Nursely has been greatly improved and has risen to a high let el of excellence The beautifully illustrated catalogue issued by the concern contains particulars of thousands of exquisite plants which are available at the nursery plone there are 237 Varieties cata logued and there are equilly interesting lists of other descriptions of Of roses flowering and ornamental plants at most moderate most moderate Prices Apurva father, footstanding followed in his father, sor a unic romonica in the following father, so frotsteps and devoted a portion of his time to public affairs,

sening for years as an Honorary



Babu VocaNDRA NATH BISWAS

the estate left by his grandfather and is considered a young man of much promise

Babu Jatindra Nath Biswas, aged about 27 Jears, 1s the eldest son of the late Babu Jogendra Nath Biswas, second son of the late Babu Jadab Chandra Biswas He is employed in attending to the affins of the Empress Nursery in which he is assisted by his cous n Babu Horendra Nath Biswas, second son of Babu Apurta Chandra Biswas Both these young men shov considerable aptitude in horticultural science, and are doing good work in improving the condition of the Nurserthave been carried off by the Em-The following medals press Nursery Exhibits at different Exhibitions from time to time



in number Messre Blocch & Co have large godowns at Rangeon for curing and pecting hides shipment to Lurope and U S

as Senior Manager The Government honoured Mr Roberts in October 1907, when he was appoint-



Hon Mr SIDIFI ROBERTS

ed a Member of the Council of the Lieutenant-Governor of Burma

The late Mr GEORGE BRUN-TON, WICE Born at Birming-ham, England, January 29, 1823 Fifth son of Mr William Brunton Consulting Engineer of the same city, who was a friend of Sir George Stephenson, and had the honour of being one of the first member of the Institution of Civil Engineers in London Mr George Brunton studied engineering under his father, and on attaining the age of sixteen years came to India to join his uncle, Mr Robert Brunton, the Manager of the Indian Iron and Steel Works Porto Novo, India The Works were transferred to Beypore on Mr Robert Brunton's death, and Mr George Brunton proceeded to that city as Manager of the Works, which position he maintained until they were closed In 1858 he went to Cochin, where he joined Messrs Oughterson & Co., Merchants and Shipbuilders Proceeding thence to Bombay he brought out several inventions, the principal of which was an improvement on the cotton Inother was a hydraulic valve He was successful in introducing a system of irrigating paddy lands in Southern India by means

of steam machinery, which succesfully displaced the old native methods. He served as Chairman of the Cochin Municipality, and successfully built groynes as a protection to the town against the sea. He died in 1900 at his residence in England Hisson, Mr William Brunton, partner in the present firm of Geo. Brunton & Son, was born in India in 1850 and educated in England. He joined the business in 1868 at Cochin, and on the retirement of his father succeeded to the business, and perfected his father's schemes of irrigation.

Messrs GEORGE BRUNTON & SON Engineers, Cochin, Trichur and Alleppey Established 1858 by the late Mr George Brunton, MICE,



The late Mr GEORGE BRUNTON

the firm are largely interested in irrigation works in South India, utilising the drainage pumps invented by the founder. They have also a Foundry at Vypeen, where they are making arrangements for the manufacture of all descriptions of castings in brass and iron. They also undertake the building of boats and launches. A couple of boats running between Alleppey and Quilon for the transport of passengers are partly owned by them, and they intend increasing in number and also extending the places of call. These

boats ply along the Backwater which forms a shallow inlet along the coast some 250 miles in length from Trichur, the ancient capital of Cochin, to Trivandrum, the present capital of Travancore Fibre forms the staple industry of Cochin, and the firm have three hydraulic presses at work for the pressing of coir fibre and yarn They employ about 1,500 hands, and all the departments are superintended by Europeans and Eurasians

Mr J E CARDET BRUNTON, youngest son of Mr George Brunton, is now starting a line of Motor Ferries called the "Red Star Line," between Quilon and Trivandrum A long felt need

The BURMA ENGINEERING & TRADING COMPANY, Ltd, Machinery and Metal Merchants, Engineers, General Merchants, etc., This Company is an Rangoon offshoot of the well-known Glasgow firm, Messrs A R Brown, McFarlane & Co, Ltd, and was originally established at Rangoon, under the title of H P Cameron & Co in October, 1906, at 73, Merchant Street, Rangoon, dealing in metals, machinery and hardware generally Under Mr H P Cameron's manage ment the affairs of the firm prospered from the first and after fifteen months' successful trading it was decided to form a Limited Company to take over the business, and large premises were engaged at the same address for the operations of the new Company A strong staff of European assistants has been engaged by the Company to carry on its business under the direction of Mr H P Cameron who continues in the business in the capacity of local The scope of the Com-Director pany's affairs has been extended and now embraces operations in the various businesses of Machinery and Metal Merchants, Consulting Engineers, Shipbrokers, Soft Goods Merchants and Insurance Agents The Directors of this concern are identical with those of Messrs A R Brown, McFarlane & Co, Ltd, of Glasgow, namely, Messrs A R Brown, Japanese Consul in Glasgow, Geo McFarlane, MI, MECHE, MINA, Consulting En-

THE CYCLOPEDIA OF INDIA

The BOMBAY-BURMA TRAD-Rangoon Tangoon
Timber Merchants This large Cor Forest Lessees Ltd, rchants This law and Poration was originally founded poration was originally lounded when Upper Burma was still an when Upper During was sum an independent kingdom, with its capital at Mandalay foundation to the late Mr William Wallace who, in the year 1862, It owed its obtained from the King of Burma ODIAINEG IFOM THE INING OF BURMA FOR the Working of these in the following year Mr Wallace floated a Company, and the Bombay Burma Trading Corporation was accordingly incorporated in 1863 office of CompanyThe head

troubles that followed the war they carried on their business as large number of the native population The Company's concessions were duly renewed by the British Government after the war The principal business of the Company is forest exploitation and the timber trade Burmese teah, the main product of their forests, being a famous wood, in great demand everywhere They have large steam saw mills at Rangoon, where the timber brought down from the Concessions is cut and dressed

as Agents for Messrs McEwan & Co, the North British and Mercantile Insurance Company, and the Alliance Marine Insurof the Company are the Managers
Mr S Roberts, and Messrs The Managers Mr S Koberts, and Messrs ton Mill Manager, W F S Perry ton Mill Manager, W F S Perry Forest Inspectors E G Johnston E Cleaver, Maymyo, W G and F & Cleaver, Maymyo, W & Moore and H Nisbet (Forest Managers) Pynnmana C B Moggridge Hannyngton (Forest Manager) Shwebo W O Hannyngton (Forest Manager), Toungdwingyee, A L O'Donoghue (Forest Manager), Mingin, W

Bell (Forest Manager), Kındat, (Forest Singer ger), Moulmein, Mana-Wanagers McGeorge and P Warshall

The Hon ble $ROB\widetilde{ERIS}$ Senior Manager of the Bombay Burma Trading Corporation, Ltd, Rangoon comes of an old Kentish family He was born in London and educated privately He arrwed in Burma at the age of

19 to join the Bombay-Burma Trading Corpoan appointment after the death ration, in which he had obtained of his brother who had been first five or six offices at Rangoon transform of users five or six of users five or s He was subsequently transferred to active employment in the years worked in various parts of Burma In 1902 he was recalled to Rangoon to fill the posicalled to Kangoon to nu the position of Junior Manager, in which
capacity he served until the year
1905 when he entered on the
duties of his present position



CLEPHANT WORKING TIMBER IN THE FOREST

third Burmese
War of 1885
which led to the deposition of King Theebaw and the annevation of his former dominions to the British possessions The Company then resumed their operations under the security of the British Government During the war a large number of the European employes of the Company lost their lives, being killed by the Burmese who took advantage of their isolated positions one distributed as they were in numerous distant forests The Company contributed a great deal to the work of keeping the country in During the

session of large forest concessions in Java and Siam where they do a very extensive trade in timber Here also teak is the main product The Company possess one of the largest established businesses m largest established businesses in Every Surma In that country alone, exclusive of Siam and Java, alanhante and althoughther about elephants and altogether about 10,000 hands Their timber yards, with the trained elephants dragand stacking timber, are ging among the best known sights of the country In addition to their main business, the Company act

year 1907 showed all the Bink's affairs in an eminently sound con-The Directors of the Bank of Burma are Mr S 1 Mower of Mower & Co Chairman Mr G S Clifford, of the same firm, and Mr W P Okeden, of Summers & Okeden The General Manager is Mr R F Strachan Messrs Summers and Okeden are Solicitors to the Bank, and Mr J Stuart Smith, CA, is the Auditor The Bank's London Agents are Parrs Bank, Limited, Bartholomew Lane, London, E C, and Williams De icons Bank, Ltd, 20, Birchin Lanc, London, E C Besides the branches at Calcutta and Madras the Bank has Agencies in India and Burma, at Agra - Illahabad, Bombay, Colombo, Cawnpore, Delhi, Darjeeling, Karachi, Lahore, Lucknow, Mussoorie, Mandalay, Nowshera, Peshawar, Poona, Simla, Srinagar, Sialkote and Quetta

Mr RICHARD FREDERICK STRACHAN the General Manager of the Bank of Burma, Ltd, was born at Great Crosby, near Liverpool England, in the year 1865, and educated at Merchant Taylors' School in the same city. He entered business life in the year 1880. In 1886 he came out to India, and was one of the founders of the Bank of Burma, in association with Mr S \ Mower and Mr G S Chifford

The BANK OF BURMA, Ltd Madras Branch F L V Joyce, Manager The Madras Branch of the Bank of Burna, Ltd, was opened by Mr Joyce in January 1906, and he has continued to manage since The Bank is now thoroughly well known throughout India, their constituents extending through out the Indian Empire Mr Joyce has been connected with the Bank of Burma, I td, since its establishment, and previous to this had served in Indian banks since 1807 His previous service was with the Commercial Bank of India, Ltd, in Bombay, and at its various branches throughout India For some time he was in the service of the Great Indian Peninsula Railway, and on leaving that concern was with Messrs W and A Graham & Co for about four years He has had an extensive business experience in railway, commercial and banking enterprises and has built up a large and sound connection for the Bank of Burma I td., in Madras He has been connected with volunteering for the pist 16 years, serving with the Bombay Volunteer Artillery, Bombay Light Horse, Punjab Light Horse, and



Mr I I \ Jovci

Rangoon Mounted Company He now holds a commission in the Madras Volunteer Guards which he received on 18th June 1908 He is a Mason, and Assistant Secretary of Lodge 'Pitt Macdonald" No 1198

The BURM \ RAILW \YS COM-This Company was formed in 1896 for the purpose of taking over the working of the then existing system of State Railways in Burma, and extending it by the construction of other lines, particularly one from Mandalay to Kunlong The rail-ways taken over by the Company from Government on the 1st September 1806 comprised the following lines -Rangoon to Prome on the Irrawaddy River Rangoon to Mandalay, and thence to the bank of the Irrawaddy, opposite Sagaing, and Sagaing to Mogaung, with an extension to Myitkyina and a branch to Katha The Managing Director is Lieutenant-Colonel Alfred Glynn Begbie, RE The Head Offices are at 199, Gresham House, Old Broad Street, London

The history of ruly ays in Burma dates buck only to 1874, when sanction was first given for the construction of a line from Rangoon to Prome This line 161 miles in length vas opened to triffic in 1877 under the name of the Rangoon and Irravaddy Villey State Railway The next extension was along the Sitting Valley, north east of Rangoon and the line reached Toungoo 166 miles from Rangoon by the middle of 1885. After the annexition of Upper Burma, this line vas extended to Mandaliy and is novknown as the Main line section Through communication v is estabhshed in 1889. In January 1890. the Mu Valley extension was taken m hand. This line starts at Sagaing on the north bank of the Irray addy, tvelve miles below Mandalay and extends 331 miles to Maitkaina the last section having been opened in January 1898 Me inv hile a branch line, six miles in length had been made and opened in 1891 from My ohrung junction three miles south of Mandalay to a point on the left bank of the Irrawaddy opposite Sagaing and a steam ferry instituted thus completing the connection In 1893 a brinch to Meiktili 13 miles from Thazi, was opened and subsequently extended to Myingvan on The branch tothe Irrawaddy wards the Chinese frontier v as commenced at the end of 1895

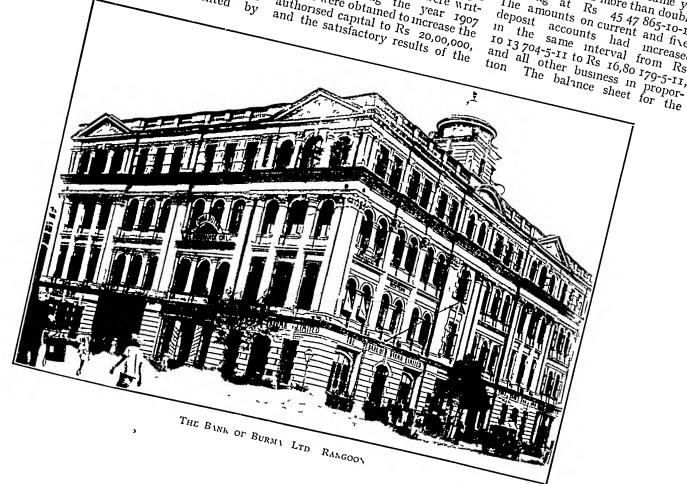
In the following year, when the working of the line was taken over by the Company, 886 miles of line were actually open to traffic The capital expenditure, up to the end of 1895, had been upwards of seven and a half crores of rupees-Rs 7,57,29,659 to be exact The gross earnings for 1895 had been Rs 67,11,062, the net earnings Rs 27,02,356 representing a percentage on capital outlay of 3 57, while the proportion of expenses to earnings was 5973 per cent The earnings per mile per week had been Rs 169 As however, the interest payable on the capital amounted to Rs 30,01,163, the year's working represented a loss to the State of Rs 2,98,807 By the end of 1906, the capital expenditure had been nearly doubled (the amount at the end of that year being given at Rs 13,07,87,368) To show for this, however there was open line, 1,340 miles in length,

Brown Mr Cameron acting as local Director in have houses in Japan and China, The parent Company and a large business with these, as well with the home house, is him the being rapidly built up by the Rangoon house No shares in the Burma Engineering and Trading Company have been offered to the public

The BANK OF BURMA Limited Head Office, Phayre Street, Rangoon Branches, and Line Beach Branches, 2nd Line Beach Madras No 5 Fancy Lane Calcutta This bank was established in the month of November, 1904, With a Paid-up capital of Rs 2 62 500, and an uncalled capital in reserve of Rs 2,37,500 making The operations of the Bank have been successful from the commencement, in the half-year ending 30th June, 1905, paying a dividend of 5 per cent, half-year ending 30th for the Reserve leaving Ks 12,101 for the Reserve Fund and Rest, the security for depositors being represented by

Rs 5,12,161 Since then the prosteady of the Bank has been the rate of z ner cent ner continued at the rate of 5 per cent per annum
has been paid to the shareholders increasing sums regularly placed to the credit of the Reserve December, 1905, by Rs 10 000, December, 1906, by Rs 20 000, 20 0000, 20 0000, 20 00000, 20 0000, 20 0000, 20 0000, 20 0000, 20 0000, 20 0000, 20 00000 and December, 1900, by Rs 66,520 The paid upcapital at the end of 1907 was represented by Rs 5,08 905 With uncalled capital held in re-Serve amounting to Rs 2,37,500 inched by a 1907 the net profit, including Rs 5543-5-6, carried forward from the previous year, and for paying all expenses, amounted to Rs 75 673-1-10 This allowed of a dividend at the rate of 5 per cent per annum, free of meome ta\, absorbing Rs 19 510-9-6 leaving Rs 56,162-8-4 for Reserves and Rest All preliminary charges were written off During the Year 1907 Powers were obtained to increase the authorised capital to Rs 20,00,000,

half-year's working, which resulted in a profit of 181 per cent, emphasised the Wisdom of the Directors' action in increasing the capital and thus enlarging the scope of the Bank's operations The the Bank since the commence ment of business stands at 12 66 per cent business stands at 12 00 per cent to 31st December, 1907, a result which must be considered very satisfactory. The working capital to the Bank was increased by the vear Rs 29 37 359-15-3 during the year The popularity of the Bank is rapidly increasing, as is evidenced by the strong upward tendency of its business At the close of the halfyear ended 30th June, 1907, the total amount accounted for in the balance sheet was Rs 22 03 826-3-3, while at the end of the same year this account had more than doubled standing at Rs 45 47 865-10-10 The amounts on current and fixed deposit accounts had increased in the same interval from Rs 10 13 704-5-11 to Rs 16,80 179-5-11, and all other business in propor-



Rs 58,61,913 representing a percentage on capital outlay of 419 Interest charges amounted to Rs 4613,499, and the Company's share of the net earnings was Rs 5,66,021, the gain to the State

to Myitkvina in the extreme northeast and the Lashio Branch which runs close up to the borders of China On this last named line is some magnificent scenery and the Burma Railways Company has made ar-



THE FALLS OF THE NAM TO RIVER BELOW NAM PWI STATION, BLEWN RAILWAYS

being Rs 6 82 393 The earnings per mile per week were Rs 225 and the proportion of expenses of earnings, 62 74 per cent This was, however, a comparatively poor year the two previous

poor year the two previous years having shown far better results both to the Company and the Government

and the Government
Since the pacification of
Upper Burma, following on
the deposition of King Theebaw, this interesting country has vastly increased in commercial importance, and it likewise affords a fair field for the investigations of the ordinary tourist Upper Burma up to the time of the third Burmese War, was practically unknown territory to Europeans, and their acquaintance with the interior was confined to the fact that it consisted mainly of jungle, and was therefore unsuitable tor military operations Now, the heart of the country 15 pierced by the extension of the Burma Railway from Toungoo to Mandalay and on

rangements along the line of route which enable travellers to see all there is to be seen, with the smallest inconvenience to themselves that is possible. The first station of im-

portance on this line, after leaving Mandalay junction, is Maymyo, situated on the Shan Plateau, 3,600 feet above sea level Maymyo, a small Shan village, was occupied as a military outpost in 1886 and

continued as such till 1900, v hen the advent of the railway brought it prominently into notice as a hill resort. It is nove quite an important place the hot veather resort of the Local Government with a Club, Post and Telegraph offices a Civil Hospital and Government rest-houses It is the fixed head quarters of the tvo local Ghurka Battalions and latterly barracks have been built for the British troops that are from time to time moved up from Mandalay It is also a trade registering station between China, the Shan States, and Burma and large quantities of tea dry and pickled pass through by train and road Next comes the Gokteik gorge which is crossed by the railway at the 83rd mile from Mandalay The gorge consists of a deep fault in the limestone formation, along which the Nam Hpa Se River runs, and disappears at

this point underground flowing for some distance through a lofty cavern, and forming what is locally termed a natural bridge. The railway is carried across the gorge



ENTRANCE TO THE SECOND TUNNEL, GONTEIN, ON THE BURNA RAILWAYS

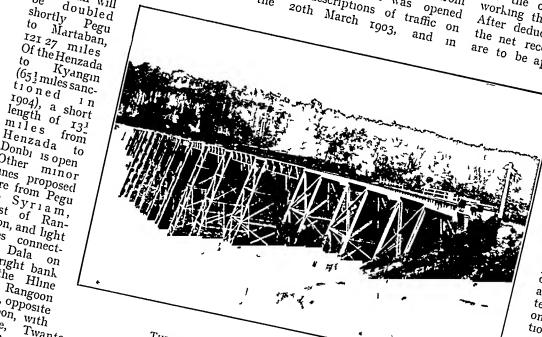
while 253 miles were either actually under construction or sanctioned for construction or sanctioned all on the 3 feet 3% in gauge

Railwaye everage of the Burma Railways system is at present as follows On the Wain line section, main line (Rangoon to Mandalay) main line (Rangoon to Mandalay), 386 miles, branches 81 60 miles, Irrawaddy Section (Rangoon to Mondalay), Prome), 161 miles, (Rangoon to Section, main line (Sagaing to Myitalay), 331 miles, branches, 91 46 (Myohaung to Lashio, 177 84 miles). Myohaung to Lashio, 177 84 miles), and the Bassein-Henrida-Letpadan Section 110 96 miles Of these 38 79 miles only are at present but 77 72 miles line 'in all will

Lashio, 17 miles from Mandalay, Was completed in March 1903 The other branch, from Sagaing to the Chindwin River at Monywa and Alon, was opened on the 15th April 1900 A more recent addition to the line is a branch from Letpadan on the Prome line to the Irrawaddy at Tharawaw, where the river is crossed by a steam ferry to Henzada and thence carried on to Bassein, a distance of 1141 miles from Letpadan inclusive the river crossing which is reckoned as 4 miles. The line from Henzada to Bassem was opened for all descriptions of traffic on 20th March 1903,

by the Company, or if it be worked at a loss for three consecutive half-years Government may also determine the contract may also determine the contract on the 31st December 1921, or at the end of any succeeding tenth year, by giving twelve months' previous notice On determination of the contract from any cause the Secretary of State is to repay to the Company in sterling at par, the capital raised by the latter. The Company has no power to surrenworking the lines are as follows After deducting working expenses The terms of the net receipts in each half-year are to be applied in payment to

Government of (1) the equivalent of the interest paid for the half-year on any debentures Issued by the Company, (2) the equivalent of the guaran teed interest at 21 per cent per annum on C_{om} . pany's capital of £2,000,000, and of the interest payable on any additional share capital raised by the Company, (3) the equivalent of interest at 21



River, opposite Rangoon, With Dedaye, Twante, Pyabon A bridge over the Irra waddy to replace the ferry at Sagaing has recently been sanctioned As previously stated, the branch through the Northern Shan States towards the Chinese frontier had been started at the end of 1895 The first portion to Maymyo Was opened on the 1st April 1900, the further extension to Nawnghlio taking place a month later Mean While the lofty viaduct over the Golder gorge had been taken in hand, and on the 1st June 1901, trains were first run across it and on to Hsipaw The extension to

 b_{e}

tioned

Donbi is open Other minor

lines proposed are from Pegu to Syriam, east of Ran-

goon, and light lines connect-

Rangoon

ing Dala on

the right bank

of the Hline

doubled

THE MAIL TRAIN CROSSING THE "GOATEIN GORGL" through communication with the

main line in April of the same year The Burma Railways are at present worked by the Company under a contract with the Secretary of State for India, dated 9th March 1897, by Virtue of Which Governnent guarantees interest at the pany's share capital, and provides for the covernment may terland free Government may terminate the contract after giving six months' notice if the Company fails to perform its obligations, or it company be, in the opinion of the Secretary of State, in course of gross mismanagement

per cent per valent of the capital expenditure annum on the by Government on the railways up sterling equito the date of the transfer, and of Interest on any additional moneys supplied by Government payment of the interest, as mentioned, any surplus which may remain unpaid in a year ending on the 30th June, is to be divided between Government and the Company in the proportion of four-fifths to the former and one-fifth

The figures for 1906 show that, on a capital outlay of Rs 13,97,87,368, the gross earnings were Rs the gross earnings were Rs 1,57,32,205, and the net earnings

submitted to King Alompra The next station is Myitkyina, the northern terminus of the railway The town lies on the right bank of the Irrawaddy, and away to the cast, on the other side of the river, is the Chinese frontier, about twenty-hve miles distant delineating line is a range of hills, with peaks as high as 10,000 feet the Sansi gorge, leading to Ta-li-fu, being over 8,000 feet high may here be noted, with reference to the suggestion now being made for the further extension of the Burma Railway to Ta li-fu in view of the great extension of French influence in Indo-China, and the construction of the railway from Tongking to the frontier, which is expected to be completed by October 1908, that if the proposed extension is carried out, this is the section of the line that will be extended

The BURMA RICE IND TRID-ING Company, Ltd (Branch), Moulmein, Burma Rice Vill Proprietors and Merchants Established at Moulmein in the year 1907 Head offices, London and Rangoon This Company was established out of the Firm of Kruger & Company, Ltd, which was one of the oldest established firms in Moulmein They own one rice mill on the Moulmein side of the River Moulmein, and another on the other side of the same river at Martaban Both of these mills are fitted with white rice machinery The land on which the mills are built is freehold and the property of the Company Nearly all the shipments of rice made by the Company go to Germany, the Company being connected as an offshoot with the Reis & Handels A G of Bremen in the German Empire, which is the largest nice concern in the world

Mr Carl Ebell, Manager of the Burma Rice and Trading Company, Ltd, Moulmein was born in the year 1876 in Germany and educated mostly in the same country On the completion of his education he served with a German mercantile firm, where he received his commercial training He came to Burma to join the firm of Kruger & Co in the year 7899, and served that firm in Rangoon till 1904 when he took furlough On his return he was appointed Manager of the Moulmein

Branch He takes a keen interest in local matters and sport, and is Honorary Secretary to the Moulmein Racing Club

Mr SPLRIDON GLORGE CMOGREEDY, Merchant and Trader, Proprietor Upper Stores and SG Vertannes & Co., and the Printing and Stationery Company, Mandalay Mr SG Calogreedy is the son of the late George Painoty Calogreedy, who was sent from Calcutta to Burma when king Mindoon ascended the throne of Upper Burma is Agent of Messes Barol & Co., Diamond Merchants



Mr S G CALOGRIEDA

He subsequently joined the mercantile firm of Messrs Halliday, Bullock & Co, and acted as their Agent in Mandalay, doing business for them in earth oil at Yenangaung, and teak in the Chindwin and Mu Forests He obtained a lease of the Mu Forests in 1868 for five years, but, while he was working the concession, he had the mis-fortune to be killed by a wild elephant in 1870 His son, Mr S G Calogreedy, was born in Calcutta in 1852, and educated in the same city, and at Rangoon He secured an appointment in the Bombay-Burma Trading Company in 1880, by favour of Mr J C Bryce, Managing Director With this Company he served the full term of

21 years, retiring in 1902. During the term of his service he was Manager of the Mu Lorests On his retirement he devoted himself to commerce and trade and has required the proprietorship of the concerns detailed above. He has three sons and five daughters His sons assist him in the manage ment of his various businesses. During the var of 1885. Mr. Calogreedy did signal service to the British Government for which he was specially thanked by the authorities He performed the dangerous duty of proceeding to Mandalay just previous to the var in the S S Doowoon (Captain Mathers), to warn all British subjects of the ultimatum to be given to King Theebay in October, 1885, and require them to leave in 24 hours. Also to varnall the employees of the Bombay-Burma Iriding Company of the impending troubles and to take way the cleph ints, the property of the Company, to British territory During the var that ensued Mr Calogreedy lost a brother killed at Purliek a village near knowkse, by the follovers of the Mymzung Prince He performed other services of importance it that time in the Yeu and Shwebo Districts with the Deputy Commissioners then appointed, Mr & S Fleming Mr B Haughton and Mr W N Porter It was due to his personal influence that the Sawbwa of Wuntho Aung Myat, was persunded to remain quiet though he could not be persuaded to come in and make his submission to the British Government Mr Calogreedy undertook n most dangerous duty in visiting the Sawbwa, as the whole country was then entirely in the hands of six decoit lenders. He visited the Sawbwa on a second occasion in February 1887, when he persuaded him to pry the tribute of Rs 30,000 per annum to the British Government, which he had previously paid to King Theebaw It was not till February, 1891, that the Sawbwa ultimately broke into rebellion against the British Government Mr Calogreedy, owing to his knowledge of the country and people, was also able to render the Government efficient aid by collecting information and acting on occasion as guide to expeditionary columns in the Shwebo and Yeu Districts

THE CYCLOPEDIA OF INDIA

by a lofty steel viriduct, 1,620 feet in length, to which the line winds down the hill-side on the south approach and climbs up again through a couple of tunnels on the opposite or north side The Viaduct was or north side the viaduct was erected by an American firm, and was begun on the 9th January 1900, was begun on the oth January 1900, and completed on the 1st June 1901, when the first train rin ran 2nd 2 magnificent town Is very fine and a magnificent view of the viaduct, and its approaches can be obtained from the rest-house belonging to the Railway Company, which is free to first and second class passengers ther on is Hsipaw, the capital of name, where the Sawbwa has his resi

line in this direction, is situated
3,100 feet above sea-level It is 177 miles from Mandalay and 95 miles by road from the Kunlong Ferry over the boundary between Yunnan at this point Lashio is the head-quarters of the Superin Salween, the tendent of the \orthorn Shan States, has Post and Telegraph offices and is occupied by the Lashio

Sagaing, Which is the southern terminus of the Mu Valley Section of the railway, lies twelve miles South of Mandalay, on the opposite bank of the Irrawaddy It this point is it present crossed

pital, and a dak bungalow are numerous pagodas in and near Sagaing, the most famous being Nga-dat-gyi and Kaunghmudaw ThereLargely attended festivals are held at these two shrines yearly in Octo Running almost due north from Sagaing the railway passes through Shwebo, which was the capital of the kingdom of Burma in the reign of Alompra, who hes buried within the crumbling walls of the town The next station which was, till 1891, the chief town of Sawbwa of reputed Shan origin Then comes Naby Junction, and from

this point short brance short branch line takes the traveller Katha branch runs Th_{IS} over Petsut Pass, the and rises 340 feet after leav ing N_{aba} after which it has a fall of 508 feet for the remaining nine miles to the river bank Katha is the head-quarters of the District of the same name, and the Jumping-offstation Bhamo f_{or}



NAW TO LAILS TROW MOVE FULL NAM SAY CUTTING ON THE LASHIO

scapes worthy of a visit for themselves alone At a point 271 miles from Hispaw the Namyaw River hurls itself over a ledge 275 feet high, and hitting three smaller ledges in its fall, forms a series of cascades, the whole making a picture as fine as anything of its kind in the Dast The line runs Within a few hundred yards of the Falls and for the convenience of visitors the Railway Company has provided a bungalow on a knoll immediately opposite the falls, and small paths have been cut to views points from which good arrangements. Small paths have been cut to obtained Special arrangements may be made for lacking to half at the falls Lashio, the present terminus of the

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rocky reaches

and limestone ledges,

wooded With lands, form a series of land

 $dot \check{t}ed$

by ferry steamer to the Amarapura station on the left bank, but a bridge has, as already stated, been sanctioned, and is expected to be completed In about three years, time Sagaing Is situated at the end of a range of hills, which bounds the rivel bank for some miles northward The town lies along the river bank which here trends east and west On the opposite bank are the ruins of the old capital of Ava Sagaing which was a capital in 1315 before Ava was founded, and was again occupied as such from 1760 to 1764, is at present the head quarters of a Commissioner and of a district. It has Post and Telegraph offices, a hos

miles further being continued the Journey the Irrawaddy Flotilla Company, Which run daily in connection with the trains from Naba in a north-easterly direc The main line continues tion the first station of importance after leaving Naba being Mohnyin The district hereabouts is said to The district hereabouts is said to have been formerly occupied by Chinese The plain at one time must have been well cultivated, the hills to the west the land from the hills to the west, the land was gradually deserted Fifty miles further on is Mogaung, formerly the capital of a Shan Lingdom Later on it came under the influence of China, but in the 18th century

plete produce market report with quotations of the various articles of produce shipped including his vomici. Sisil and Pilmyri fibroground-nut of cake cistor seed tamarind jute cotton viru silk

vaste and other descriptions of country produce with special reference to the Madras Presidency Recently the hrm has taken up business in general imports and have erected a show large room for the exhibition of manufacturers' samples they have also icaured the business of Messrs Brown & Co. Tanners and I eather Tur-nishers of Ton diarpet, Madras, and purpose continuing and extending the trade in their own name under

expert European supervision

The long experience the firm have had in the leather trade, both in raw and tanned hides eminently fits them to develop this new branch of their business Mr George Alexander Chambers sole proprietor of the firm of Chambers & Co, Madras, was born in Kent in the year 1868 and educated at Taplov Grammar School He recived his early commercial training with Messrs de Clermont and Donner East India merchants London he remained with this firm some eight years and in 1891 joined the London Office of the firm of Messrs W J Eiles & Co and at the expiry of a year and-a half was transferred to the firm's Madras office where he remained three years After leave he returned to Madras and established the business of Messrs Alfred Young & Co, Merchants, in that city After managing this business for five years Mi Chambers returned to England, but came out again in the year 1003 to establish his present firm of Chambers & Co

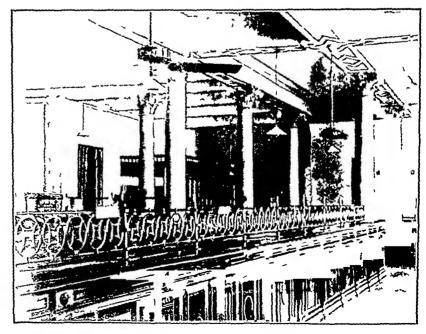
CHARIERED BANK OF INDIA AUSTRALIA AND CHINA Incorporated by Royal

Charter in the year 1851 Head Office Hatton Coart Threedneedle Street London I (The Bank has a Capital of 1,200,000 Reserve Lund of 11 175 000 and Reserve Lund of Proprietors of

> 11 200 000 The Board of Direc tors is composed of William Christian, Psq. Sir Heary Cunninghim 511 KCII Mfred Dent. KCMC Henry Neville Glid-Isq Stone Imile Texatti 15q, Sir Mon tagn Cornish furner Levis Mexinder Wollice Isa, ind Thomas Cuthbertson Feq The Managers in Mr Calch Levis and Mr. 1 11 Whitehead Sib-Manager Thomas Fraser This vell-known Bank is the



CHARTERED BANK OF INDIA AUSTEMIA AND CHINA RANGON



INTERIOR OF CHARTERED BANK OF INDIA, AUSTRALIA & CHINA RANCOON

Messrs, CARSTENS & Co General Merchants, Moulmein This firm is one of the oldest established in Moulmenn and dates from the Vear 1860 When it was started by Mr H Murken under his own name Mr Murken was the first to manufacture ice in Moulmein bringing out a machine for that purpose in the sixtles. The ice business was subsequently sold to the Moulmein Ice Company, which the present proprietor of the business Wr Proprietor of the Christoph Heinrich Custens manof Mr Murken in the Year 1887, Wr Carstens acquired the business On the death and changed its title to the above

 M_{Γ} C_{HR} $C_{1RSTF \setminus S}$ Carstens being by tinde a Watchmaker the film under his nanagement earry on a large busi mess in clocks, watches, etc., of which they hold a large stock. They also deal on a large scale in general merchandise and have an extensive Wine and Spirit department for which they hold a license department of the firm deals in arms and ammunition The firm are also Auctioneers, and hold by appentment the position of Auctioneers of the Is now the sole proprietor of the business, is a native of Germany, and came to Moulmen in the year 1884, Where he entered the service of Mr Where he entered the service British subject a few years later

He is one of the founders of the Burma Motor Transport Company, Ltd, of which he is the present Manager and Secretary Cristens takes a considerable in local affairs having been elected a member of the Municipal Council for the first time nhout 12 years ago He served one term of two years in an elected appointed a Municipal Commissioner by the Government and he still fills this position He has identified himself with the country and has been connected with the volunteer movement ever since his arrival In Monling and serves as a member of the Moulmein Volunteer Artillery in which he holds rink as

Battery Seigeant-Vlajor He holds the long service medal He has been forward in all movements for the welfare of the town Wi Carstens is a very prominent member of the Craft He is a member of Lodge (Philanthropy Of Lodge Philanthropy and was Master in Wark Lodge, Ark Mariner Holy Royal Arch Temple and Mall, Secret Monitor and Rost Took he was Took he was and was Croix In the veri 1906 he was trict Grand Chapter and also to Dace Warden Chapter and also to Dietrict Grand Past Warden in District Grand Mark Lodge

Messrs CHAMBERS & CO Im-Port and Export Merchants Lecots Buildings, Madras This firm was cstablished in the very 1903 by the sole propiletoi, Mi G \ Chambels
Their business ch efly consists in derling on a large scale in skins and hides, gathering then supplies from all parts of India, but chiefly from the districts south of Bombay the districts south of Bombay They handle dry pickled wet salted and tanned goat and sheep skins, and tanned hides Their tuin over of tanned hides unounts to about

40 000 monthly specialities the firm deals in general specialities the firm deals in general produce for export and has in general most powerful hydraulic pless in Madra, for pressing and baling waste, Jute, etc. The firm possesses and their go Besides these extensive premises and their go downs are some of the best in their characters. In their characters with tiled roofs In their spacious offices four European assistants with a staff of twenty clerks are employed and

some 60 godowns Messrs Chambers & Co to 100 hands in the are Secretaries to, and Mr Chambers Director of, the Indian Fibre Company an extensive Agave-growing concern having some 500 acres
under cultivation in the Chingleput district and 1,000 deles in the Inantapur district Ur Chambers 15 ilso the proprietor of some 350 near Madras Their Tannery where all kinds of hides and skins are trained and pickled for export is the change of hides and skins are trained at Tondiarpet, Madras Their Tannery where Th's branch of the business is being considerably developed and Just Intely the hrm has taken over the lether hn sh ng works of Messrs



 M_I G A $C_{HAMB\Gamma RS}$ B_{lown} & C_0 European Management and with the use of additional machinery high class finished leathers, of all descriptions are being produced in tanning Chambers & Co business hindle In toun ng Chambers & Co nandle large native consignments principally in tanned hides and skins pruy in tannea nides and skins they make advances to the con signois and receive their produce of the firm is well remiseented at all The film is well represented at all the nim is well represented at all the principal centres of the hide agencies all over India, and selling principal cities of agencies in the principal cities of States and Europe the United States of Australia They issue a very coma gentleman of middle age. This gentleman was educated at the Wesleyan Mission School, and on completing his education joined his fither in the Brewing bus ness. He is also largely interested in Coffee planting. He takes great interest in public affairs and has been appointed a Bench Magistrate. For the past three years he has served as Munic pal Commissioner for the Civil and Military Station of Bangalore. He possesses the family disposition for charitable works and is extremely popular. His latest public act is the provision of a handsome gate to the local St. Martha's Hospital

Messis A J COHEN & Co, Brokers 80, Mogul Street, Rangoon This firm was established in the year 1889, and deal in rice, paddy general produce and gunnies. The sole partner is Mr A J Cohen This is one of the pioneer firms of produce brokers in Rangoon. They have agencies at Calcutta whence they import gunnies and other produce. Mr A J Cohen is a member of the Rangoon



Mr 1 J COHEN

Brokers' Association, of which he was one of the original pioneers He was a member of the Port Defence Volunteers as well as of the Mounted Company, Rangoon Volunteer Rifles, till compelled to

resign owing to pressure of work He has travelled extensively in India

Messrs CURSETIEE COW \S-JEE, Watchmakers, Bombry This firm is now managed by Mr Jchangir Cursetjee Cowasjee, second son of the late Mr Cursetjee Cowasjee,



Mr JIHANCIR CURSITJLI COWASJII

great grandson of Mr Joghajee Ruttonice, the first Parsi watchmaker in Bombay and probably in India Mr Joghajee had received fraining in this ancient art from a French watchmaker who had come to Bombay in 1728 Since then every member of the family learnt watch repairing from its clders Mr Cursetjee Cowasjee learnt the art from his cousin, Mr Jamshedjee Muncherjee alias Chika Ghadially, the famous watchmaker, who also was descended from the above-named Mr Joghajee Ruttonjee He opened his shop in Medows Street in 1857 At that time there was a well-known Euro pean firm of watchmakers in Bombay carrying on bus ness under the name and style of Rosselett & Co whose work of all sorts of repairs was entrusted to Mr Cursetjee He was appointed watchmaker to the GIP Railway in 1857, the same year when the Railway was started, and in a short time he obtained entire con fidence of the Agents as well as of the public, and distinguished him

self like his cousin the fimous Chika Ghadrilly Mr Cursetjee died in 1879 and the business vas then carried on by his two sons, Messrs Covasjec and Jehangir, of whom the former died in 1905 The firm is now carrying on business on a large scale in Bombiy under the sole ownership of Mr Jehangir Cursetice Cowasice The firm are still vatchmakers to the G I P and also other Railways and has earned a great reputation amongst high European officials for reparing inv sort of vatches and clocks, however intracite and complicated their parts may be. The family has conducted the business of watchmaking for the last two centuries, and Mr Jehangir, the he id of the present firm, is training his eldest son, Mr Indirshaw, also in the same line

Messrs G D' NGELIS & SON Hotel Propuetors Confectioners and up-country Caterers Madras The firm have carried on a confectionery and restaurant business for some years past in Madras, and have established themselves as



Mr G D ANGELIS

a business of importance to the whole of South India in this line. They have recently opened a very fine Hotel known as the "Hotel D'Angelis," which occupies a central position in the most important

senior institution of its kind in India and the Far East agencies and branches are established in all the British Asiatic possessions, and in China, Japan, the Philippines and Java The Rangoon branch was established in the year 1862 by the lite Mr Alexander Watson who husbanded its affairs with marked ability for the long term of 30 years Mr John Wilson has been in charge of the agency for the last 10 years, and Mr William Dickson, who officiates in the absence of M1 Wilson, has been 25 years in the Bank's service at the head office and various branches in India, Ceylon, Straits and China

The Bank conducts a general banking and foreign exchange business, in which capacity it has figured conspicuously in financing both the internal and external trade of Burma during the past 47 years (1862-1908) For many years the Bank carried on business at the corner of Strand Road and Phayre Street, now known as the "Port Office," but about 10 years ago moved into their own spacious premises at the corner of Phayre Street and Shafraz Road

It is interesting to note that the Bank recently acquired the historic Crosby Hall in London, and after a series of delays, in deference to those anxious to save the ancient Palace of Richard III (which, however, only met with half-hearted response) the work of demolition has been completed, and it is intended to erect new premises for the Head Office, more in keeping with present requirements than the Hatton Court premises afford

Rai Bahadur V GOVINDA CHETTIAR, born at Vellore in the Madras Presidency, comes of a wealthy middle class family of the Madras Presidency, and was early attracted towards mercantile pursuits About lifty years ago Mr Chettiar seeing a good opening for the supply of Indian brewed beer established a Brewery in the Cantonments, Bangalore He carried on this enterprise with great skill and success amassing a large fortune and lifting himself to the position of the richest man in the Cantonment. He understood the responsi-

bilities of wealth, and his naturally charitable and public-spirited character induced him to launch forth in all kinds of work for the public good. As far back is 1865



RAI Bah idur V GOVINDA CHETTIAR

he built at the cost of over a lakh of rupees a Rest House for Travellers This institution has accommodation for about 30 travellers who, besides being provided with lodging are furnished with



The late Mr. GENEVIHARY CHITTIN

food The Rest House was formally opened in 1871 by Colonel Sir Richard Meade, the well-known Commissioner of Mysore It is maintained at a cost of some Rs 2 000 per month, mainly derived from a special fund for charities. It Govinda Chettiar was the active spirit of nearly every public movement in his day, and in recognition of his endeavours for the good of the country and the public Government bestowed upon him the title of Rai Bahadur. He was the first citizen of Bangalore to attain that honour. He left a son Mr. Gungathara Chettiar who followed in his father's footsteps and exhibited the same amnable traits of chiracter,



Mr V MASHAMON CHITTS

and was noted as a charitable and loyal citizen. He maintained the charities of his father and improved them in a variety of ways. On his own account also he has contributed to public objects. It a cost of Rs. 10 000 he instituted a Ward in the Boyring Hospital which was formally opened by the late lamented I adv Curzon, wife of the Viceroy of India. In his time, Mr. Gangathari Chettier was one of the most prominent citizens of Bangalore and well known to all residents in the locality. His death occurred at the age of 55 years on July 21, 1903. He left a son Mr. Masilamony Chetty who is now

remain in the country, setting up in business for himself in Madias as a confectioner At hist he stirted in a small way, but soon gained a large clientele and his reputation increased He has in the succeeding vears built up the business to its present large proportions Some 20 years ago he secured by purchase the site where his business is now located, which is the best and the most central spot in Madras Since that time he has been constantly improving his property by buildings gardens, etc. His experience in his business is very gicat and he invariably gives it his personal supervision, this has enabled him to attain the leading position he now occupies

Rai Salub Lalla RAM SARN DAS Rais, Lahore Born November 26th, 1876 This gentleman is the descendant of a family which attained great distinction in the days before the Punjab came under the rule of Maharaja Ranjit Singh His ancestor, Diwan Das Mall, who flourished from 1747 to 1798, held the post of Diwan to the Bhungi Chiefs who ruled in Lahore in



RailSalub Lulla Ram SARN DAS

those days The Diwan's personal endowments of mind and body enabled him to render eminent services to the Chiefs, in recognition of which he was awarded Jagirs,

land and money grants. His second marriage which was celebrated with great splendour and attended by the Chiefs and dignitaries of the Government of the day, had assue one son I alla Dhanpat Ru, born in 1796. Two years later Dawan Das Mall passed away. Misfortune fell on the family shortly after the



The late Ru Brhadur Mila RAM

death of Diwan Das Mall Singh attained the sovereignty of the Punjab and in the changes incident on his accession Dhanpat Rai was deprived of his inherited wealth and nearly all his lands Jugirs and other property Dhanpat Rai was thus reduced to poverty On the tranquilising of the upheaval and the return of times of renewed peace and prosperity, Lala Dhanpat Rai married into a Khatriva family of standing at Batala and two sons proceeded from the union Lalla Ram Doyal. born in 1817, and Rai Mela Ram born in 1832 The re-establishment of the fortunes of the family was due to Mela Ram, the younger son In his time the Punjab passed from the dominion of the Sikh khalsa, after Ranjit Singh's death to that of the British Mela Ram had the ability to take advantage of the changed condition of the country relieved of a military despotism He started a successful business career as a contractor

In the early lifties he was one of the two enterprising contractors on a large scale, the other being Mian Sultan In the sixties and seventies he took up large contracts for the supply of Deodar sleepers to the Rulways, and rose to eminence is a P W D and Rulway contractor in the Punjab He secured the entire contract for the Amritsar-Pathankote Railvay. including iron-vork, sleepers, masonry and earthwork, which he inished with characteristic energy well within the contracted time Government awarded him a special grant of Rs 50,000 for this per-tormance In February 1869 he attained the distinction of being appointed to Durbari, and on March 8, 1876, he was honoured with the title of "Rai" His further excellent services in the building of public edifices were recognised by a certificate from Government in 1877, and in 1886 he was created "Rai Bahadur" Rai Mela Ram Bahadur's works of public utility were many, and on a munificent scale, and in the course of his life his beneficences amounted to a million of rupees He built a magnificent tank at the Rulway



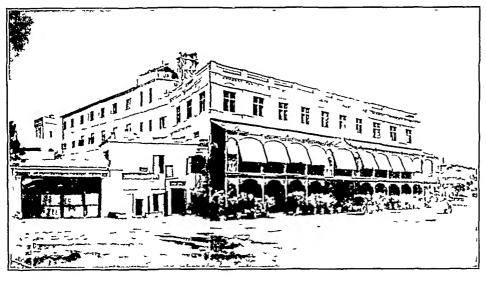
The late Lalla Hari Krishna Das

Station, Lahore, and sunk wells in many different localities in the Punjab He built a hostel and endowed it for the feeding of the poor He kept open a flour shop at

part of the European business quarter of Madras The buildings have been specially erected for the hotel, and every care has been taken to render them comfortable stylish and hygienic Expenditure to secure Bathrooms fitted with the latest European sanitary conveniences, and the flushing system, are attached to each suite of rooms. The whole of the establishment is fur mished with electric lights, fans and have secured the services of Mr J Radesco, of Bucharest, who has a very wide experience of hotel and restaurant management in Europe and America Mr J Radesco has risen to the position of Manager

from the bottom of the ladder and he has thus grined a thorough knowledge of every department of a first class hotel Mr J Radesco was for over four years a superintendent at Messrs J Lyons & Co, Trocadero Restaurant in London, and he afterwards successfully managed the Hotel Metropole in St Montz Switzerland, and the Grand Hotel Weber in Intwerp Belgium Needless to say Radesco will consider it his duty to make the hotel a comfortable home to all its visitors English French Italian, German, Hungarian and Spanish are spoken Mr Giacomo D' Angelis is an

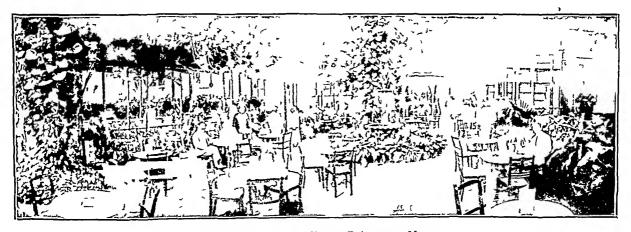
Italian and was born at Messina in Sicily After leaving school he was apprenticed to the confectionery trade in France and subsequently practised the same trade in Pairs, where he was employed in a large hotel in that metropolis. When the Duke of Buckingham accepted the appointment of Governor of Madias he engaged Mr. D'Angelis to come to India in his suite, as confectioner In 1880 the Duke returned home, and Mr. G. D'Angelis elected to



HOTEL D'ANGELIS, MADRAS

these advintages his been lavish, and the premises compare well with anything of the kind in Europe There are two main divisions of the Hotel designed for the convenience of visitors. The main block contains family suites, and the wing is reserved for bachelors. There is a fine deep verandah embracing the hotel and running in front of all the rooms and facing the famous Parisian Garden of the Hotel, which is unique of its kind in the East

bells, and there is an electric lift to all the floors. There is a fine billiard saloon fitted with three tables by J. W. Roberts card rooms, smoking room and reading room, besides a special reading and writing room reserved for ladies on the premises. Messrs. D'Angelis have a high reputation for French, English and Italian Cookery, and in this respect the Hotel D'Angelis is second to none in the East. For the manage ment of the Hotel Messrs. D'Angelis

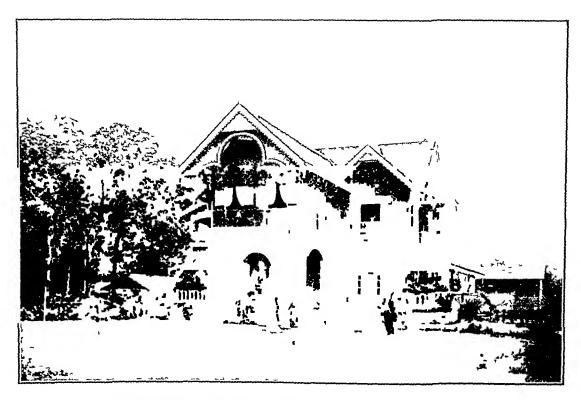


THE PAISIAN GAPPLN, HOTEL D ANGELIS, MADRAS

Municipal Engineer at Rangoon for 18 years His appointment to this position dates back to 1872, and he was in the course of his long official career intimately associated with a most important period in the development of the town of Rangoon, as during those years the town was fast coming into prominence from its previous rather obscure position. In the year of his resignation, 1892, Mr Deacon Clark decided to turn his engineering talents to account on his own bchalf which his intimate knowledge of Burmese engineering affairs well fitted him to do To this end he took into partnership Mi S J Hall and together they started the present firm of Messrs Deacon Clark & Co which grew and prospered from the first under their able guidance Mr Hall was well 4tted to be Mr Deacon Clark s associate in the business, as he had worked under him as Assistant Engineer on the Rangoon Muni cipality for the whole of the eighteen years during which Mr Clark had served as Engineer to

that body Messrs Deacon Clark & Co now carry on a very extensive business as Civil and Consulting Engineers and Architectural and Constructional Engineers They are open to contracts on the largest scale for constructional works of all kinds, the building of railway lines, cuttings and embankments, construction of public and private buildings and all other works which come within the purview of the best architectural and engineering contractors In the early years of the firm Messrs Deacon Clark & Co accepted the contract for the construction of 21 miles of Railway at Katha, Upper Burma, for the then Burma State Railway, and carried the contract through in an eminently satisfactory manner They have also steadily carried out large contracts for the Public Works Department in Upper Burma, undertaking a good deal of building other work at Mandalay, and Myingyan and Meiktila A great many of the public buildings in Burma are the work of this firm, and they have an excellent

reputation for this class of work Among the edifices erected for private firms are the fine premises of the National Bank at Rangoon, and in various towns in Upper and I ower Burma there are many other excellent specimens of Messrs Deacon Clark & Co s work At the commencement of the firm's business career they held the Agency for Messrs Burn & Co, Ld, the well-known Engineering Company of Calcutta, and handled all the specialities of that firm in Burma for eleven years till, in 1905, Messrs Burn & Co were so satisfied with the Burmese business that they decided to open a branch of their own at Rangoon, when the Agency ceased Besides acting as Engineers, Messrs Deacon Clark & Co carry on a large trade in building requisites and sanitary apphances and fittings They are agents for Messrs William Lee & Co's celebrated Portland Cement of superior English manufacture also for the Basel Mission Tile Works South Canara and Malabar, for Mangalore



CHUDLER H HOLST, RINCOON FLECTED IT MESSES DESCON CLARK & CO

Lahore where grants of flour were daily made to mendicants A hundred men and women are daily fed at these institutions. His donations to public institutions under Government were Rs 24,000 to Delhi Hospital (1864) Rs 15 000 to the Central Training College, Lahore (1886) Rs 15,000 to the Lady Dufferin Hospital for Women (1886) Rai Bahadur Mela Ram enjoyed great social consideration it the hands of the highest in the land and held conspicuous rank at the Durbars of the Maharajas and other princes of the land He died April 10 1890 leaving two minor sons under the guardianship of his brother Rai Ram Daval Saheb Rai Rim Sarn Das, the older of these sons was educated at the Central Model High School, Lahore He matriculated in 1893 after passing the Middle School Examination in 1890 He attended the Lahore Government College for the next three years and subsequently pursued a three years'

Civil course in andMechanical Engineering Though the heir to great wealth he continued in business Soon after leaving College he established a Cotton Ginning Pactory at Lahore, and in 1890 added a Cotton Spinning and Weaving Will also at Lahore The Lieutenant-Governor, Sir Dennis Litzpatrick, k c s i, for-mally opened the Mills in 1897. These contain 14,000 spindles and give employment to some 500 hands He has erected many buildings at Lahore, shops, etc., and 1 new hotel at the Upper Mall which considerably adds to the beauty of the Civil Station The personal distinctions he has gained include the offices of the President, Vice-President and General Secretary of various religious, educational and social associations He inherited a seat in Durbar and attended at I ord Elgin's Durbar at Lahore He was also a Government guest at the Delhi Coronation Durbar

and at the Durbar held by H R II the Prince of Wales at Lahore in At this Durbar he was a member of the Reception Committee He was nominated a member of the I ahore Municipality in 1900, of the Lahore District Board in 1905, and of the Committee of Management Government School of Engineering in 1906, and of the Victoria Jubilee Institute in 1907 In 1905 Govern-ment made him a member and Joint-Secretary of the Kangra Valley Earthquake Relief Fund In 1906 he was exempted from the operation of the provisions of the Indian Arms Act He has two sons Gopal Dass born February 2, 1897 and Roop Chand born June 14, 1900, who are at present studying at the Aitchison Chiefs' College Lahore His brother Ru Huri Krishin Das vas born in 1879 and educated it the Central Model High School Lahore passing the Entrance Examination of the Punjab University in 1895. The two brothers lived on close and affection

ate terms, and on the principle of the Hindu joint family system. Rai Hari Krishna Das unhappily died of heart disease in 1906 at a time when he was beginning to take an interest in public matters. He left no male issue and the fortunes of the family are left to Rai Ram Sarn Das. The business is carried on under the name of R. B. Wela Ram's Sons, I ahore.

In 1909 the Government conterred upon I alla Ram Sarn Das the title of 'Rai Sahib'

Messrs DEACON CLARK & Co Engineers and Contractors, 5, Strand Road, Rangoon This firm is very favourably known throughout Burma as large Contractors to Government as well as to public and private bodies, and they have carried out very extensive works. The business was established in 1892 by the late Mr Deicon Clark, who was previously well known in Burma, he having held the post of



NATIONAL BANK OF INDIA, RANGOON PRICTED BY MESSES DEACON CLARK & CO

now occupied, in the year 1878 I 10m a very small concern, the business has grown, during the thirty years it has been in existence to be one of the largest of its kind in Burma As the business grew, more space for its convenient vorking has been added year by year, and the result is the present large and commodious three-stoned head quarters of the firm Rangoon, which have a frontage of 57 feet towards Dalhousie Street and extend from Tseekai Maung Tawlay Street to 31st Street, covering a ground area alone of

10 150 square feet At the time the firm was estab lished Europe medicines were little known amongst the natives of These have now become Burma very popular, and the firm of E M DeSouza & Co is credited with a very large share of the work of introducing their usage amongst a very sceptical race of people who had strong belief in the curative powers of their native drugs Gradually, their unbelief in Europe medicines was broken, and to-day, DeSouza's Trade Mark "Dah" is a household word in every town and village throughout the length and breadth of the Province the business increased the firm extended its operations and opened branch establishments in various parts of the Province,--first at Bassein in the delta of the Irrawaddy, next at Maymyo, the seat of the Provincial Government during the hot weather, and then at Poozoondoung, a suburb of Rangoon In addition to a very extensive retail trade in which the firm enjoys the patronage of the European population, amongst whom are included the highest Government officials, they conduct a very large wholesale trade and supply most of the large general trading Companies, Rice Mills, Missionaries, the smaller Dispen-saries, and native drug sellers throughout the Province, with their requirements, they are also Drug Contractors to the Government and supply all the Municipal Hospitals in Burma with drugs, surgical instruments and appliances and hospital furniture An optical department under the direct supervision of an Ophthalmic Surgeon has recently been added,

this is rapidly becoming a very important branch of their business

The concern is under the manager ship of Mr J W Murdoch, Chemist, a partner of the firm, who is assisted by a staff of European registered chemists, who have the various departments under control, in addition to a large staff of qualified dispensers, clerks, etc

From its foundation, the firm's policy has continuously been one of consideration and regard for all with whom it has had business relations, and it has always prided itself on the high quality of everything it handles, to these facts is due the high popularity which the firm enjoys to-day

Messrs K M DEY & CO, Merchants, Contractors and Commission Agents, of Nos 45, 46, 47 and 48, Radha Bazar Street, Calcutta This well-known and old-established firm was founded about sixty years ago by the late Babu Khetter Mohun Dey Originally starting as Civil and Military Contractors on a small scale, the firm gradually extended its operations, up to the year 1858, when it was specially commissioned by the then Inspector-General of Police of the Lower Provinces to supply uniform clothing to the whole staff of the Police in Bengal in all its districts, a contract which the firm has continued to hold up to the present day The satisfactory execution of all orders entrusted to the firm, and the integrity of its dealings with its various constituents attracted the attention of the Military authorities, by whom it was favoured, in 1880, with the contract for supply of service regulation helmets to the whole of the British troops in India contract was carried through to the satisfaction of all concerned, up to the year 1905, when the Government of India decided to have the head-gear of the British troops serving in the country supplied from England Under arrangements with the British Government, the bulk of the pith helmets used by the British troops in South Africa during the late Boer War, and all the helmets served out to the troops in the Soudan Expedition of 1884, were supplied by

Messis K M Dey & Co, who were recognised to be one of the most reliable firms of contractors to the Government in India

The founder of the firm, the late Babu Khetter Mohun Dey, died in 1884, and on his death the senior partnership devolved upon his eldest son and executor, Babu Surruth Chunder Dey, who by his business talent, and with the cooperation of his brothers and co-partners, has greatly extended the business of the firm, and added considerably to its stock in trade and capital The management of the business, in both its administrative and executive branches, is entrusted to the junior partner, Babu Krishna Chunder Dey, whose business capacity and power of organisation, combined with energy straightforwardness. secured a vast amount of business for the firm, and have been the means of extending its relations with foreign countries his efforts alone that the establishment of the firm's extensive jute business at Chandpur in the district of Tipperah is due, and it was through his exertion that the sole agency for the sale of Ruberoid Roofing in India and Burma, and of Hall's Sanitary Washable Distemper Paint, were secured by the firm Besides other business Messrs K M Dey & Co are the Managing Agents of the Nilgiri Granite and Stone Company, Limited—a company incorporated for the purpose of quarrying Granite stone from the Nilgiri Hills near Balasore in the province of Bengal Mr Dev has taken a great deal of interest in developing this native industry in the country To facilitate transport of these minerals a Light Railway from the quarry to Balasore has been laid, and it is generally remarked that although the concern is the first of its kind in Bengal, its prospects are very bright and the success of the enterprise a matter of certainty

DUN WOOD AND FURNITURE SUPPLY CO This firm of Timber Merchants and Manufacturers and dealers in Art and General Domostic, Mercantile and Office

They hold a large stock of fittings, flush modern sanıtary tanks, C I tubes and fittings, wash hand basins, pedestal closets and C I baths, iron tubing and fittings in all sizes from ! to 6 inches. stoneware pipes of high class English manufacture in all diameters, dec orative glass, tinted Cathedral glass in beautiful designs, in art glass lead lights, electric fittings electroliers, light switches, fans, The late Mr Deacon Clark was a member of the Institut on of Civil Engineers The present partners in the firm are Messis Samuel John Hall and Malcolm Mathieson

Mr SAMUEL JOHN HILL, senior partner of the firm of Messrs Deacon Clark & Co, was boin in India in the year 1849 and educated in the same country. His first experience was gained in railway engineering. At the age of 17 he joined the firm of Messis Norries and Weller, Engineers and Contractors, who were at that time engaged in the important work of constructing the connecting link between the East Indian and Great Indian Peninsula Railway systems, which

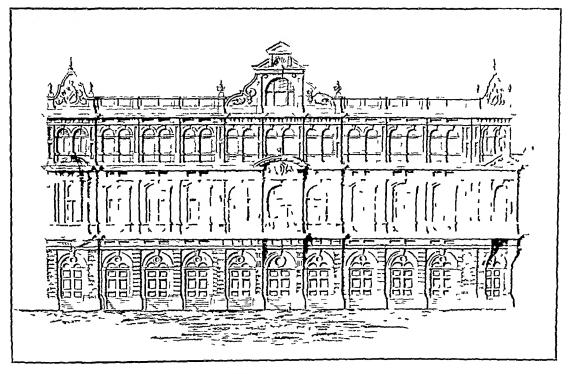
was to linl up Calcutta and Bombay With this firm Mr Hall remained four years, and after the



Mr S J Hui

expiry of this period he accepted an appointment with the firm of Messrs Scott and McClelland, of Bombay In the service of the latter firm he was placed in charge of the construction of the Tulsi Dam which forms the Reservoir for the water-supply of the city of Bombay This work he satisfac torily carried out With this firm Mi Hall remained about ave vears, till, in 1875, he took the opportunity offered him of joining the Rangoon Municipality as Assistant Engineer and resigned the service of Messis Scott and McClelland For the next seventeen years till 1802 Mr Hall served the Rangoon Municipality in this capacity under Mi Deacon Clark the Chief Engineer During his connection with the Rangoon Municipality Mi Hall superintended the Water-works and the Dra nage works which included the formation of the Victoria Lake and the laising of the level of the Royal Lake, Rangoon

Messrs E M DrSOUZA & Co, Wholesale and Retail Chemists, Druggists and Ophthalmic Opticians Rangoon, Maymyo, Basson and Poozoondoung This firm was established by Mr E M DeSouza, in a corner of the premises



, Messrs E M DrSolzi & Co's Premisis, Ringoon

It shortly it classes of the day oned a very large circulation. He ilso gave his attention to more ous literature, and was the first to publish Sinskrit works with introluctions in English for the benefit of the English educated classes Having met with losses in business babu Pran Nath removed from Hothkola to live in the northern suburbs of Calcutta His son Ku punith's health fuling this course is recommended by his medical idvisers. Here he ignin interested h mself in public affairs and successfully with the ord of the Mill and Factory people opposed the attempt to neorporate Cossipore and Chitpore in the Calcutt's Municipality and obtained the formation of a separate Corporation for these are is In 1888 Babu Pian Nith breithed his list after a brief illness. He left two sons Kripanath and Faianath the latter born in 1865. They were both educated at the Oriental Seminary Both of these gentle men have followed in their fathers footsteps Babu Taranath was Chairman of the Cossipore-Chitpore Municipality from 1904 to 1907 and Babu Kripanath is the present



Mi Krii NATH DUTT

Chairman, holding the office for the second time. The family has a distinguished record. Its founder was Purusuttom Dutta, who rendered himself conspicuous by declining to acknowledge servitude.

to the Brihmins A descendent Govinda Su in Dutta founded Govindapin on rent free Lind granted him by the Mogul Emperor The site vas subsequently made



Mr. IM MATH DUTT

over to the English by Rim Chinder in exchange for Hithkoli and upon it Fort William was erected Ram Chinder and his son Madan Mohun were both bruins to the East India Company Madan Mohun creeted may temples at Benares Calcutta and elsewhere. He also creeted the great structuse leading to the Pretsila hill in Gaya. His descendant Joget Rim Dutta was Dewin to Vinsitary and accompanied him during his settlement of Midnapore, Cuttack and Behar. He built many temples in those parts. His son Hur Sunder Dutta was the first Dewin of the Government Stamps Office.

Messis DYMES & Co, Itd, Mcichinis Madris This him was founded in the early fitties by Mi Daniel D Dymes who return from the business in 1870. They were the pioneers of cotton pressing in the Madras Presidency. On the opening of the North-West line of railway Dymes & Co established Factories at Adom, Raichore, Bellary and Prodatoor. Since that time the firm have opened Agencies at

Guntoor, Cocon of a Bimlip item Pondicherry, Cudd dore, Satur, Virdup Ati and Luticorin. In the Verr 1904 the fum Vis reconstructed and converted into a limited hisblity Company of which the precent Directors are H. Scott. V. H. Deane, G. W. Mitchell, and R. Hunter

AUGUSIUS HINRY DIANIAD ADE (Lieut Colonel (Hon Colonel) Madras Volunteer Guards) son of Revel Burry O Mear's Midris Dene life Chiplin Lecles istical Department is born of Genevic Systeeland in the year 1851 and come to Modris n 1860 to join the firm of Dames & Co. with vhom he has remained ever since Colonel Denie vas one of the seven Volunteer officers selected n India to proceed home with the Indian Contingent which attended the Coronation of King Tdv ard VII and he filled the duty of Paymaster to the Volunteer Contingent. For his services on this occasion he was specially mentioned in Army Orders In 1905 H's Excellency the Viction paid Colonel Deane, and through him the regiment of



It Col A II DIANI

Midn's Volunteer Guards, distinguished honour by placing him on his personal staff as Honorary Aidedc-Camp The services of Colonel Deary, to the corps have been

Furniture was established in the year 1902 The Head Office is at Dehra Dun situate on the Rajpur (the Old Club premises) Road The firm deals in timber which it uses not only for its own furniture workshop, but also supplies the trade in its own district. In addition to this it also supplies to various business centres in other parts of India At the Factory at Dehra Dun where the furniture is made for the firm, over 100 hands are employed, principally Sikhs The firm has also its branches established at Mussoorie, Bareilly, and Meerut, where bus ness is carried on in an extensive manner, and the firm enjoys all round a good reputation and to maintain which it always takes very great care at all costs and risks. The chief articles of furniture made are cab nets, almirahs, chests of drawers office tables and chairs, dining tables and chairs, mirror side boards, dumbwaiters, drawing room suites of sofas and chairs, lined rich plush chiffoniers, marble top tables, and teapoys, dressing and wash stand tables clothes presses, etc, etc It also furnishes business premises with all the furniture required to carry on trade The different patterns of office tables and other such furniture are manufactured in a very artistic manner The polish on their furniture is a distinguishing feature, it is bright, pleasant and lasting, and the material itself is seasoned, selected and sound Besides these articles of furniture they prepare doors and windows of all kinds to suit any and every taste of their customers fact the firm provides a longfelt want of the district by providing a reliable furniture depôt near at hand which saves the unnecessary expense of carriage in bringing down furniture from other places, and the provoking disappointment sometimes occas oned on finding a valuable piece broken during transit

Captain EDMOND JOHN ARTHUR, Sole Proprietor of the firm of Dun Wood and Furniture Supply Company, Dehra Dun, was born at Mahableshwar in the Bombay Presidency in the year 1873 He received his education at Winchester College and the Royal Military College at Sandhurst After passing out he joined the Lancashire

Fusiliers (the old 20th) at Belfast. Ireland, and was there for one year He then came out to Quetta in the 2nd Battalion of the same regiment where he served for four years, after which he joined the Native Army and served in the 7th Bombay Lancers for about three years being fond of independence and having a natural tendency towards trade, he severed his connection with the Army in the year 1902, and entered business starting his commercial life at Dehra Dun under the denomination of the present firm he owns and manages been successful in his venture, thus proving that the change in life he attempted was undertaken after due deliberation and mature thought His commercial acumen can be gauged by the present flour shing condit on of his business, and the var ous branches it has been found necessary to open to meet the wants of buyers in a prompt way Working's ngle-handed, he has built up a trade in a foreign land and established it on a sound footing

Babu PRAN NATH DUTTA, son of the late Loke Nath Dutta, of the Hathkola Dutta family of Calcutta Born in the year 1850 He received his preliminary education at the Oriental Seminary, in those days one of the best schools in Calcutta subsequently attended the Hindu College for more advanced studies as a scholarship holder Here he attracted the attention of the professors as a youth of promise an outcome of the esteem in which his attainments were held the young Pran Nath was selected by the Principal of the College when requested by the Government to re commend a student competent for the post of Interpreter to the Original side of the Calcutta High He was, however, precluded Court from accepting the post as it did not meet the wishes of his father In those days English education was looked on with suspicion by orthodox Hindus, and Pran Nath had to leave College by his father's He applied himself to the orders study of Sanskrit, Persian and the Indian vernaculars At this time he became a frequent contributor to the leading vernacular journals—the Bibidhartha Sangraha, the Raharshya Sandarva and others

late Dr Rajendra Lal Mittra for merly Editor of these journals afterwards transferred the Editorship to Babu Pran Nath At the death of his father Babu Pran Nath decided to start business as a Merchant. and gained experience in the office of the late Babu Peary Chand Mitter Later he established a firm under the style of Messrs Pran Nath Dutt Chowdhury & Co, for the purpose of shipping country produce to Europe He subsequently added a printing press known as the "Su-chara Press," an iron foundry at Sulkea, and a silk mart in Radha Bazar, to h s other concerns Babu Pran Nath took a leading part in the movement which transferred the



The late PRAN NATH DUTT

management of the Municipal affairs of Calcutta from the Justices of the Peace to elected Commissioners, during the administration of Sir Richard Temple He was among the first elected and served on the Corporation till his death He was also an active member of the British Indian Association and of the Indian Union, and interested himself greatly in the promotion of technical education His business affairs, however did not prevent his continuing his interest in journalism and he ventured on a new line in Indian journalism by establishing the "Indian Punch" "Basantaka," by name, a comic paper which met with great appreciation from the educated

proper, their business being very widely extended. They are duly qualified. Dispensing. Chemists Messis Foster & Co. also possess a large Acrated and Mineral Water Lictory from which they turn out.



Mr W G PADDOCK

large quantities of Soda Water, etc for the supply of Bangulorc and the surrounding Districts The present partners are Messrs J B Forster, PHC, and W G Paddock, APS Mr James Beaty Forster,

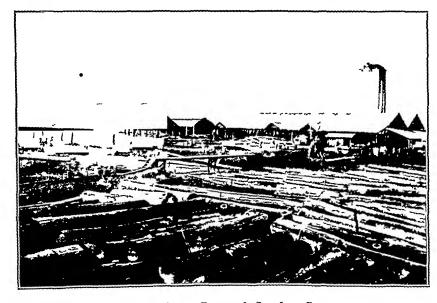
PHC was born at Cirlisle, Ing lind, and educated in the same city He qualified himself is a Pharmacentical Chemist in London In the veir 1887 he came to India to join Messrs W. L. Smith & Co. Chemists Madras With this firm he served an agreement of three yous at the expuy of which he started business on his own iccount it Bingalore. Mr William George Puddock APS partner with Mr. Forster in the above firm v is born at Winchester England in the veir 1866 and educated it Win chester. He received his chemical truning in London. In 1888 he came to India to join Messrs W. L. Smith & Co., Chemists, Midras is Assist int and Manager of their Town Branch Meer serving with this firm for four years he joined Mr Forster at Bang dore is partner in the business of Lorster & Co.

Messrs FOUCAR & COMPANA, Ltd Ringoon and Moulmein Fimber Merchants, Commission Agents and Proprictors of Sav Mills This business was started at Moulmein in the year 1878 by the late Ferdinand Foucar. It was continued at Moulmein for some years when Mr Foucar removed to Ringoon and started the business in that city Mr Foucar died in 1899 and on his death the business was converted into a limited hability Company.

The Company ovalarge well established Saw Mills at Moulmern and Rangoon fitted with the latest mechanical appliances and machinery for saving timber, of which they turn out a very large tomage amundly. They give employment to about 1 000 h unds. They possess extensive. Torest concessions in a virious parts of Burma. The Chief Managing Director of the Company is Mr. L. J. Louear, and the other Managing Directors are Messrs W. Danger, and Wm. Nuding.

Messrs M I UJII & Co , Importers of Japanese general curios sills etc., Lulors, Outfitters and Hairdressers, 283 Dalhouzic Street Ringoon This business is now the property of Mr Mithone d Abdul Kader, a Mahomed in gentlem in who v is born in 1885. Mr. Kader's father, Munshi, Misan, Mr. a Chittagong Mahomedar, went to Rangoon in the days before the Burmese War of 1885 He eventually settled at Rangoon where he is at present one of the richest contractors among his community. He is much esteemed for his charity and good vorks and is looked upon as an acknowle iged leader by the Youssulmin conjounity. He is a lirge landed proprietor in Rangoon and Chittagons, and is the President and sole imancing head of the purely native shipping line known

is the Beng d Steam Navigation Co, lately established at Rangoon He is well and favourably l nown to the Europe in community, but, owing to his ignorance of the English language, he does not mix much in public affairs. His son, Mr M A Kader, was first educated up to the Higher Standard in Arabic and Persian, and then went through a course of study in English at St Paul's High School, Rangoon Leaving school in 1900 be became an assistant in his father's business, working in this capacity for a year, after which he started in business for himself under the name and style of A Ahsan Alı & Sons, General Merchants At first his youth and inexperience told igainst hun and it took him two years to gather experience of commercial affairs and establish himself firmly At the expire of this



Timbei Mill Messis Foucar & Co LD, RINGOON

invaluable. Joining from the old Godaveri Rifles in 1887, he has for the last 21 years devoted himself with uniform goodwill to the service of the M V G He has deeply interested himself in every question that touches the welfare of the corps both in drill and equipment, and even more so in improving its discipline and efficiency. During the temporary obsences of the Colonel he has more than once acted as Commandant He has given great support to the CO is Secondin Command, notably in the matter of the late acquisition of the valuable property in the Regimental Institute and the re-payment of the large loan of Rs 45 000 by equated instalments. Colonel Deane adds to his other duties those of Consulfor Belgium, and is also Chairman of the Madras Fire Insurance Agents Association

The FORI COACH FACTORY Mody Bay Fort, Bombay Established by the proprietor Mr Pestonjee B Press at first in a small way. Mr. Press who came of a family that had been for years in the Coach-building trade, gained his training at the Bombay School of Art, and in entering the trade resolved to bring Coach-building up to European standards in the Western Presi-The works which were at the commencement accommodated in a shed 30 ft by 15 ft have now so grown as to occupy five substantial buildings and two glass sheds covering an area of 3,000 square yards. They comprise engine house, cu pentry, painting, varnishing and plating shops, a motor garage, comfortable offices, and spacious show-rooms equipped throughout with up-to-date machinery and appliances, including a substantial carriage lift The Factory has a first class connection with Native Princes and leading gentlemen European ind Indian Mr Press has been Carringe-builder by special appointment to four successive Governors of Bombay from Lord Sandhurst to Sir George Clarke He has carried off Gold Medals at the Poona Industrial Exhibition, 1888 Rajkote Exhibition 1893 Bombay Horse Show, 1895, 1896, 1898, 1896 & 1900 Poona Horse Show, 1896, Ahmedrbad Exhibition 1902, Bombay Congress Exhibition, 1904, Surat Exhibition, 1907 Bombay Motor Show, 1908 and Franco-British Exhibition, I ondon, 1908, and a Bronze Medil at the Paris Exhibition of 1900. He has introduced many innovations in Coach-building



Mi Pistonjii B Piess

in Bombay such as the Vis-1-Vis Victoria the new open-side squarefronted Brougham, Char-a-Bane, or Luncheon or Shikar Car aubbertyring, cushion and pneumatic ball-bearing axles and his own

patent trace and shaft bolt, a self acting contrivance for preventing carriage accidents. Mr Press is a practical hand himself and to improve his knowledge has visited most of the leading Coach-building houses in Paris Frankfort, London and Since the advent of clsewhere Motor Cars he has established a new department of his business for repairs to michinery and the building of bodies and their appurtenances This department is now in charge of his son Mr Rustom P Piess who has received a sound training in motor engineering in England The whole of the business of the firm is controlled by Mr Press with ha two brothers Mr Jehangir B Press and Mr Jivanji B Press, and his two sons Wi Rustom P Press and Mr Ardeshu P Press

Messis J B FORSTER & Company English Pharmaccutical chemists South Parade Bangalore Established in the year 1890 by Mi J B Forster. The firm carry on business as Dispensing Chemists and also in drugs both wholesale and retail. They have also an Analytical Department which receives the personal attention of Mi Forster. They hold large stocks of partent medicines which they always keep fresh and up-to-date by frequent renewals, and in this line their business is equal to any

m India They no also manufacturers of Carboline and Pineoline, carrying out these maout nufactures on their own premiscs Their largestocks of drugs, chemicals. etc, are usod ίo meet the demand from outside districts as well as in Bangalore



THE FORT COACH FACTORY, BOMBAY

of the Bengal Steam Navigation Company, Ltd and upon his business abilities and advice, the Directors of that concern depend to a great extent. In 1906 he visited Singapore on deputation for this Company, for the purchase on their behalf of a steamer, and in 1907 he again visited that port on behalf of the same Company, to settle certain intricate business matters their pending.

Messis FOUCAR & Co, Ltd, Moulmein Buima Foiesters, Saw Mill Owners and Timber Merch ints Registered Office in London The original firm of Messis Ferd Foucar & Co, with Messrs W Cindery & Co I Fenchuich Venue, I ondon, r C as Agents in Europe was established in Moulmein in 1878 by the late Mr Ferdinand Louis Foucar who came out to Buima in the early sixties and was joined in 1880 by his brother Mi Tmile Joseph Fouch In 1886 they opened a branch at Rangoon under the style of Foucar Brothers & Co After Mr Ferd L Toucar's death at Rangoon in 1899 the surviving partner converted the business into i limited liability company with Mi E I Fouch as senior Managing Director and Mr C Wightman senior partner of Messis W Caudery & Co as Chairman of the Company's Board of Duectors in London The Company more particularly deals in timber but is also prepared to exploit and develop other resources and products of Burma It has forest concessions in various parts of Burma and also draws supplies of timber from the Shan Statts and Karennee all of this work being under the supervision of European assistants with 1 large number of elephants for the handling of the logs With few exceptions the timber is floated down the rivers and brought in rafts to the mills at Moulmein and Rangoon whence after conversion it hads its way not only to India but to pretty well all parts of the world, this latter more particularly apply ing to teak The Company deals in all marketable woods produced in Burma, has up to date mills at Moulmein and Rangoon thoroughly adapted to deal with these various woods, and at the mills for the moving of the log employs both mechanical and elephant power

Mi I J FOUCAR, who resides in Moulmein was born in Germany in 1853, and is of Huguenot descent, his ancestors having settled in Germany soon after the Revocation of the Edict of Nates. He was educated in Germany where he had also his original mercantile training, went to I ingland in 1877 to add to his experience and from there in 1880 joined his late brother Mi F I. Foucar and has been connected with the firm ever since. He is a naturalized British subject and has interested himself in local affairs taking his fair share of "they have man's burden" in the country in which he has



Mi I J Ioteu

scttled He is at present Major Commanding Moulmein Volunteer Artillery, being one of the original members to start this Volunteer Corps in 1885, joining as a gunner, and he holds the Volunteer Long Service Medal He is also a Municipal Commissioner Honorary Magistrate, and Consul for Germany

Mr U OHN GHINE, ATM CIE MRSA, MRASO IS one of the most distinguished of contemporary Burinese gentlemen. He has been singled out for honour by the British Government in recognition of the eminent services which he has rendered both in his offi-

cril and unoffic il capacities him belongs the distinction of being the first non-official gentleman in Burma to be created a Companion of the Order of the Indian Impire He's the son of U Shy iv Moung and Mah Kho his vife was born in the year 1857 it Rangoon and educated it St John's College in the same city After passing with credit, his scho-lastic course he obtained in April 1874 the appointment of fourth Mister it the same institution After a short experience however U Ohn Glune found that he had no vocation for a scholastic circui-He therefore resigned his appointment and entered the service of the great Corporation known is the Bombiv-Burma Irading Corporation I mited one of the largest firms of timber merchants in the world with its head office at Bombia He remained in the service of the Corporation for upwards of tventy-six years as in issistant, during which period he rendered excellent work Owing to failing health U. Ohn Ghine found himself unable to continue in ictive work, and retired in 1901 On retirement he was presented with a gold vitch, hindsomely engrived together with a substan tril bonus in recognition of his long and futhful services

U Ohn Ghine was held in the highest esteem by the heads of the Bombay-Burma Trading Corporation I imited This is evidenced by the very many commendatory letters he holds. They were given to him from time to time by succes sive heids of the Corporation He is also extremely popular with his fellow countrymen from whom in token of their regard on the occasion of his appointment to a Companionship of the Indian Empire he received several congratulatory addresses, enclosed in silver coskets and bowls including the Burmese, Mahomedons the Thom ma Daitti Society members of the Marks Memorial Fund and employees of the Bombay-Burma Friding Corporation Limited as well as from the Honorary Magistrates of Rangoon The following extract from the address presented by the Honorary Magistrates sets forth the claims which U Ohn Ghine had established to the respect and

period he found himself in a much improved position and decided to extend his business by enlarging At the beginhis accommodation ning he found it necessary to obtain his goods mostly through agents at Rangoon, but m 1903 he found himself in a posit on to utilise the commercial I nowledge he had guned, by dealing direct with the manufacturers In 1904 he became acquainted with Mr Hill of Messrs Hill and Hilton of England whom he appointed as his home Agents, procuring all English goods for his business through them It this time, finding his business growing rapidly, he intended to make further extensive additions, when he was led into contact with a Japanese merchant trading as M. Fujii & Co. who owing to ill-health, was desirous of giving up his business and retiring to Japan By an arrangement with this gentleman Mr Kader purchased the name and goody ill of the firm of Tuju & Co He then amilgranted his ovin business with that of Messrs Fujn & Co, carrying on both under the style of Fujn & Co, and retaining most of the Japanese

assistants who had worked under the previous proprietor Mr Kader has established himself and his firm very strongly in public favour by his good qualities and careful atten-



Mr. Manomed Abdul Kader

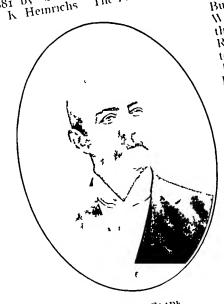
tion to the wants of his customers, and his polite, genial and unassuming personality He carries on his trade now chiefly in Japanese goods of the best quality for obtaining which he depends mostly on his Manager, who is a born Japanese Mr Kader is well known throughout Burma under the name of Fujn & Co which is considered by the Japanese who visit Rangoon to be the leading Japanese firm in the country Japanese visitors invariably call on him for assistance and advice There are branches of the firm at Kobe and Osaka, Japan In 1904 Mr Kader became a shareholder in the Shan States Trading Company Ltd and in the following year the Directors of that Company deputed him to visit Lashio, Hsiphaw and the other hill tracts in the Shan States to report on the working of their business. He was appointed Secretary of the Company on his return, and acted in this expacity for nearly a year and 7 hilf. In 1906 he was elected 1 Director of the Company In addıtion to his other business connections, Mr Kader is Vice-President



M FLJH & CO, RANCOON

nd in Linnary 1000 the Combannship of the Indian Empire wis onferred upon him by Her life Tajesty Queen Victoria Empress of India U Ohn Chine is imember of the Royal Society of Arts of Great Britain and Ireland und of the Roy il Asiatic Society He was happily married in 1876 to married in 1876 to when he had a family of a robot about whom he has a family of eight childten including the sons, two of whom ire now being educated in England

Messrs GLIDE & COMPINI Merchants Scedick Building Hoinby Road Bombay Established in 1881 by Messrs D. H. Glade and G K Hemrichs The Litter gentle



Mt D H GIADE

man dying in 1901 left Mi Glade the sole proprietor of the business The firm trades in cotton exports und represents Insurance Companies and other Agencies They are Agents for the Peeroo Mahomed Oil Mill Cc, Ltd, whose mill is situate in Byculla, where all kinds of oils for edible and lubricating purposes are pressed The mill was started in 1887 The firm are also Agents for the North German Llovd in Bremen, and are members of the Bombay Chamber of Commerce Mr D H Glade was horn at Bremen in the German Empire in the year 1852 and educated at the same town He came to Bombay in 1874 as Assistant in the firm of Knoop & Co Mr Glade took over the business in

1881 when it was closed down and re-opened it in the above style

He his been it virious periods Chumm of the Bombis Bombis Hild See ition Itd Bombis Fire Insurance Association and the Bomby Underwriters Vesociation

Mesas GLORGI GORDON & Co General Merchants etc Rungoon This him was established in the cen 1803 pt All Geo Gordon the resident partner in the lum of the resident partner in the firm of cludstone Wylhe & Co Ringoon over and curry on the Ring, which business of the latter him, which went into homelet an in that went went into liquidition in that year were me aquarie or in the Sear owng to the retriement of Mi William and Mi Gladstone The William house of Messis, the test of Messis and the Milliam of Mil Willia & Co he cet opposited in the yeu 1852 immediately after Ringoon vas tiken and innexed to the British dominions in India They had previously been estab helical it Calcutta since the year 1844 being an offshoot of the him of Chastone & Co. of Incrpool i mercutile firm or ming considerthe property in sugar estates both in the West and East Indies Pretions to 1844 the estates of the firm in India had been entrusted to the Apathnot & Co the him of (1) id-Stone Wyllic & Co coming into existence in that you to take over the man igement as well is to early on general mercantile business.
The Calcutta house is still prosper ously continuing its business and maintains a leading position in the manicums a reading position in the capital Messis George Gordon & Co carry on much the Same business of Pagagon that Messis ness at Rangoon that Messes Gladstone They are large importance of Manchester mode, and continued the Manchester mode and continued the of Manchester mode. ters of Manchester goods, and soft goods generally and export the general produce of Burma they are Igents for Lloyds, and they have a large connection for Fire Marine and Life insurance business acting as Igents for the Northern Assurance Co, Ld, the Alliance In-Assurance Co, Ld the Amance Insurance Co, Ld the Ser Insurance Co, and the Standard Insurance Co as well as for the Sun Life Assurance
Co of Canada The partners in
the firm are Mr George Goldon who non resides in England and Mr John A Manyon, who manages the business at Rangoon Mr Gordon has been connected with Burma

since the year 1880 and resided in the country for many years prior to his retirement home Mr Vanyon is Swedish Consul for Burni He joined the firm in 1898

Mr | GOW (I rentenant Bangalore Rifle I olunteers) has been a Volunneer since the year 1870, when he collisted is a coder it to electerisof In 1879 he joined the rinks of the idult corps and served con, umousk till in 1801 he received Commission is 2nd Leutenant Inter on obtaining his Captaines, and in 1996 attening held rink is A thor In Mrs 1008 he arraned the rink of Lienten int Colonel He received the V D decoration in 1896 his served continuously it Bingilore except for a period when he vis trunsferred to the Madris Volunteer County in 1990 Serving with that Corps during his rest dence it Madris until 1901. In April 1909 on the recommendation of the Hon ble the Resident in Mysole It Col Con vas appointed Command int of the Bangalore Rufte Volunteers by the Government of India He is also i Commiss ouch of the Civil and Military Municipality of Bing flore Mr Gowless Also had a successful business cureer Torsome Vers he vas Manager for Messrs Spencer and Co Itd it Bangalore and liter General Manager of the Sime firm it their Head Office it Sime firm it their Head Office it Maras He is now I and I Director of Messas Gow I ad a business which he opened on his ov n recount in April 1007 and which later wis converted into a Limited Libility Company with a capital of Rs 2 00 000 Mesers (1011 Ltd carry on a large business as Wim and General Merchants and General Agents it Bangalore, dealing in wines, spirits and groceries, mann ficturing and supplying aerated surters. They are also contractors to the sure and supplying aerated surters. to the Army in a large way verify Gow is a Mason of mint years, standing member of Lodge Banga-lore, E C 1043 in the working of which he takes a very ictive interest

Messrs J & F GRAHAM & Co, Merchants, Strand Road, Rangoon, ortablished in the year reco established in the year 1899 firm of Wm Graham which has its head office in Cathedral Street esteem of his fellow countrymen and others —

"We the Honorary Migistrates of the town of Ringoon hiving at a meeting unanimously decided to present you with a congratulatory address to celebrate your appoint-



Mr. I. OHN GHINE CLE

ment as a Companion of the Indian Impire by Her Most Gricious Majesty the Queen Empress have invited the public of Rangoon to this meeting at which the Right Reverend the Lord Bishop has kindly consented to preside. In presenting you with this address we have great pleasure in publich recording our thanks to our Government for their recognition of your sterling worth as a public citizen Your services to Gov ernment and to the town of Rangoon as an Honoraly Magistrate and Municipal Commissioner, your public charities which were and are still distributed to all classes without distinction of race or creed, and your general benevolence towards all whose wants are brought to your notice, are well known to us, and we take this opportunity of publicly recording them, and of testifying to you our high appre ciation of their having been brought to the notice of our great Queen Empress, who has graciously and deservedly rewaided you with a distinguished decoration "

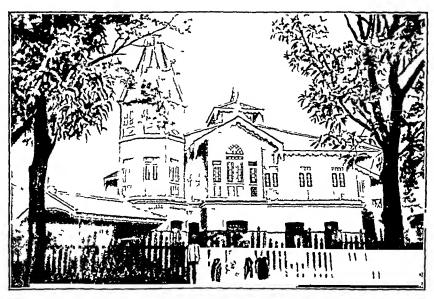
Besides doing his duty well and firthfully to the Corporation which employed him, U Ohn Ghine rendeted conspicuous services to the British Government during the early days of the annexation of Upper Burm i in the year 1885 and there after. He was attached to the expedition to Upper Burma in 1885 on the Head-quaters Staff and after the departure of King Theebay from the capital he acted in the year 1886 as an Assistant to the Chief Political Officer Colonel (afterwards Sir) I'dward 5 Sladen in Mandalix | U Ohn Ghine has rendered other services of a public character In 1886 he was elected a member of the Rangoon Municipal Council and holds that position to the present div a record which is equilled by few City Pathers in the East. He was appointed an Honorary Magistrate with second class powers in the year 1889 and subsequently he was appointed a member of the Educational Syndicate of Burma. He has continuously held both these offices of honom to the present day

In the year 1899 U Ohn Ghine and his wife Mith Yait were made life Councillors of the Countess of Dufferin's Fund, in recognition of their yery handsome donation of Rs 10,000 to the Buima Branch of

the Fund, for the purpose of establishing a specially furnished ward in the Dufferin Hospital in Rangoon known as the "U Ohn Ghine and Mah Yait Ward"

Under the Control of
n professional career

To U Ohn Ghine also fell the great honour of representing his native country at the Coronation in the year 1902 of His Majesty King Edward, when on that occasion he received from the hands of the King Emperor himself the coveted Coronation Medal Further honours were in store for him on his return for after attending the Coronation in England he was selected to represent Burma at the great Delhi Durbar held to commemorate the accession of His Majesty King Edward VII as Em peror of India. On this occasion he also received the medal struck in honour of the event. The Gov ernment has not been backward macknowledging U Ohn Ghine's services in a fitting manner. In the yeur 1898 the title of "Ahmudan Gung Tazeik Ya Min' was conferred upon him is a personal distinction by Lord Elgin, Vicerov and Governor-General of India



"TAIR VIEW ' KISIDENCY OF MY U OHN CHINE IN SIGNAL PAGODA KOAD RANCOON

to the distinction of being the founder of the Burmese vernicular press. In 1869 hinding that there was not a single vernicular newspaper in the Province he induced the interpreter of the Burma Company with which he was at the time associated to start a vernicular paper, called the

Burma Herald'' Mr Hunnay himself wrote the prospectus the contents of which were trinslated into Burmese by the interpreter who became the proprietor of the journal The "Burm's Heiald" so established, is still in existence and running strong. The paper attracted the attention of the old King Mingdon of Upper Burma the father of King I hecban as the first and for several vers the only Burmese vernac-King Mingdon ular newspaper was so favourably impressed with the publication, that he invited the nominal Editor to transfer himself and his newspaper to Mandalay There were however objections to running a free news paper under an absolute despotem such as the Burmese Monarchy was at that time and in the editorial reply which Mr Hannay published in reply to the royal invitation while he thanked His Majesty for the same he expressed his fears that a truth-speaking Editor at Mandalay would be pretty much in the position of a certain Persian vizier who when awaking, always felt his neck to make sure that his head was still on his shoulders king Mingdon was not offended, but on the contrary greatly amused and still looked favourably on the enterprise, for when some six months later, the interpreter whose services meanwhile had been dispensed with by the Burma Company, went up to Mandalay to interview the King, he received a grant of Rs 8 000 with which to buy a press and printing materials. This amount sufficed to start a press in Rangoon, at which it was possible to print not only the "Burma Herald" and publish it under the editorship of a Mandalay scholar whose grammar and orthography were more in con sonance with the language at the Court of Mandalay than the Judsoman Burmese which passes

current in Lover Burma but dso in English bi-veelly paper the "Inend of Burma" which was started at that time. Mr. Hannay undertook the editing of the "Trend of Burma in his spare time. The paper attuned giert success from the start. For a long time the connection of Mr. Hannas with the "Priend of Burma was kept 'sub rosa He secured the scivices of many contributors of light and leading who wrote monymously. This journal attained a considerable reputation and by its sambs and satures on social matters. kept th Rangoon public imused Mr. Hannay can boast of being one



Mr John A Hanna

of the few men who ever refused a king's gift, a gold cup, which was offered him in recogn tion of an article written by him in the "Friend" enjoining moderation and a pacific settlement of the dispute on account of which Sn Douglas Forsyth was then on his way as a special envoy to the Court of Burma Mr Hannay was later compelled to resign the editorship, owing to pressure of work in his office, complicated by mismanagement on the part of those responsible for the piess For the next year and-a half he was absorbed in mercantile office duties which were rendered triebly onerous by the failing health of

those above han and he recordingly left commerce to enter seriously into journalism is a profession by accepting charge of the "Rangoon Gizette. This vis in the year 1874. The "Rangoon Gazette visat that time i bi-veelly publi extion, but after three years under Mr Hannay seditorship it vis converted into a daily. The prestige of the 'Gyzette' as a leading In-dian paper was amply vindeated during the Burmese War of 1855-86 when its splendid organisation of vir and special correspondence during the compagn in Upper Burmichibled Mr Humas not only to supply Burma but ilso the Luglish Press through Reuter and most of the leading Indian dathes as vell with all the var nevs. After 15 years of journalism Mr. Hanniv decided to retire from the exercise of this profession and sold his half-share in the 'Rangoon Gizette once more embarking on a commercial career. He first traded under the name of J. A. Hanniy & Co the st le of the firm being subsequently altered to I. C. Hannin & Co. In 190, the litter firm v is converted into a Imited liability Company The Company hold the Agencies for the Palatine Insurance Company the National Insurance Company of Ireland L'Union of Paris and the Guar intec Association of Bombia. Mi Hanna is the Managing Director of the Company and also holds the appointment of Branch Secretary for Burma to that flour shing concern, the Oriental Government Securits life Assurance Co, Itd This appointment was bestowed upon him in recognition of his having successfully represented them for 30 years. Although he has given up journalism is a profession, Mr Hanniy still occasionally finds diversion and amusement by contributing to home and Burma papers in his leisure moments Mr Hann iv has all his life been a great believer in personal work as the prime element of success in any undertaking and his belief has been carried into practice in his own career

Messrs JOSEPH HEAP & Sons Ld Rice Millers and Mer chants, Phavre Street, Rangoon Burm: This was originally a private firm conducted under the

Glasgow They deal principally in piece goods general imports and exports and general produce. They are Agents for the Hansa Line, the Glen Line and Bucknall's Steam er Line. Also Agents for the British American Insurance Company and Messrs. F. W. Heilgers. & Co., of Calcutta. They have branches at Bombay, Calcutta and Karachi. The present partners at Rangoon are Messrs. C. F. Grah im and H. F. Smith.

Messis GRANT AND CATHER-WOOD, General Merchants Phavre Street Rangoon This business dates from the year 1895 when it was established by Mr Alexander Grant who was shortly afterwards



Mr Alfa Gravi

joined by Mr Henry Catherwood The partners continued to work the business together till the death of Mr Catherwood which occurred in 1901, since which time Mr Grant has carried it on on his own account The firm deal in piece-goods, hardware and sundries They also act as Agents for many London firms, Thomas Townsend & Co for hats Crown Perfumery Company William Bernard & Co, Bottle Manufacturers, in which line they do a large trade, Stevenson and Howell, Ltd, also for Manufacturers of Soluble Essences Australian, Continental and American

Houses They do a large import ousiness in butter from Australia They have the Agency for the North-West Soap Company of Calcutta and Meerut, the Basel Mission Weaving Establishment of Calicut, and act as Agents for the Empire of India Life Assurance Co, of Bombay, the Angle Lamp Company of New York, the American Trading Company of the same city Lepard and Smith, Ltd Paper Merchants of London Alfred Young & Co, Merchants London Power Power & Co London \ Joachimson Meichant Hamburg Harms and Marcus Hamburg, and J Jacobi & Co Merchants, Vienna Wessrs Grant and Catherwood carry a large stock of assorted goods Mr Alex Grant has been a resident of Rangoon for over twenty years during which period he has engaged in commercial pursuits He is one of the Secretaries of the local Young Men's Christian Association and has been connected with the Methodist Episcopal Church for many verrs of which church he is a Treasurer He takes in active interest in Sunda School and all church vork and societies

Messrs GUIMINN & CO, Meichants & Importers 71-2 Hornby Road Bombay Partners Feedinand Gutmann Julius Meyer Jules Gutmann The firm's busi Mever ness lies principally in silk piece-goods They also import all kinds of continental piece-goods and sundries. They are represented on the Bombay Chamber of Commerce. The Head Office is at Lyons, France and there are Branches at Delhi and Amritsar and Agencies at Calcutta, Peshawar and Karachi The business was originally started and carried on for about six years by Mr Henri Gutmann but was taken over by the present pro prietors in 1907 Mi Ferdinand Gutmann and Julius Meyer preside at the Head Office, Lyons, and Mr Jules Gutmann at Bombay Mi Jules Gutmann was born at Hamburg in the German Empire in the year 1877 and Educated at his native city. He also obtained there his first commercial experience, subsequently proceeding to Lyons in France joining Mr Henri Gutmann He resided in Switzerland and South America during several veirs. He came to India at the end of 1906 to tale charge of the business at Bombay.

Messis HALL PATERSON & Co Moulmein, Agents for the British India Steam Navigation Co, Ld The Marine Insurance Co Ld, and The British and Foreign Marine Insurance Co, Ld The Agency was established about 1865, and Messrs Gardener Brook & Co were the first Agents It passed from them to Mr Kennedy and from him to Messrs, Hall Paterson & Co, who are the present Agents

Νr JOH7 A HANNAI, Messis T C Hannay & Co, Ltd, Rangoon Born in the year 1845 Mr Hannay is now nearly 63 years of age, and his connection with Burma goes back far into the days when Upper Burma was an independent kingdom. He is the son of the late Wr Robert Hannay who was well known in his day as the pioneer merchant of Burma and the first to import goods direct from Europe to Burma Mr John Hannay was at first intended for the law and served an apprentice ship of three years in Scotland to that profession But his bent did not lie in the direction of the long tobe and he abandoned legal pursuits in favour of commerce, beginning again by serving an apprentice ship of four years in a London commercial house In the year 1867 he came out to Burma and joined the Burma Company, Ltd, which had been started in 1860 by a syn dicate of French and Swiss bankers At first Mr Hannay was placed in charge of the banking (Compton d'Escompte's) department Later on he took charge of the firm's import branch The firm embark ed in disastrous speculations in for est concessions, and three years after Mr Hannay's arrival, it was found necessary to wind up its affairs Mr Hannay now joined the firm of Messrs Gillanders Arbuthnot & Co, at their Rangoon Office and remained in that employ ment for the next five and a-half years A couple of years after his arrival Mr Hannay began to take an interest in journalism, and his efforts in this direction entitle him

Plumbing and Gas Work including Acetylene Iron and Brassfounders Copper and Linsmaths and have made a speciality of Aseptic Hos pital Furniture and appliances for hospitals and operation purposes. They are also the sole manufacturers of the Rice Start ing Machines which are used in Calcutta, and on all the race courses in India

The BANK OF INDIA Lat Bombay was registered in Bombay on September 7th 1006 with 1 Capital of one crore of Rupees divided into one lill hof shires of Rs 100 each. The present paid up Capital is lifty lakhs. The present Directors are Sr Sassoon David Kt Sir Cowisice Johnney But Dorabii Jamsetji Liti, Esq. Gor. dhindrs Khittru Isq I dubhu Simildis Esq. Khetser Khi ser Esq. Rumnirum Hurnundria Lsa. Jenurriven Hindoomul Dani Esq. Mr Ibrahan Rahm-Hon'ble

toola C11 Mr H P Strangfellow late of the Alliance Bank of Simla Itd was appointed Manager in Decem ber 1906. The progress made during the two years in which the Bank has been working has been very rapid the Working Capital standing at Rs 21757,014 on 51st

December 1908

Dividends at the rate of 500 and 5100 have been paid for the list two verrs respectively and i Reserve Fund accumulated of

Rs 1,75,000

The Bank has been started on lines very similar to those of the Presidency Banks with regard to the nature of the business that may be transacted and the policy of the Directors is to be satisfied with a moderate rate of dividend until the Reserve Fund has reached a substantial figure

For the present, the pud-up Capital of fifty lakhs together with the additional sum of fifty lakhs subscribed but not called up, afford very ample security to the depos

itors in the Bank

Mr HENRY PARKER STRING-FELLOW was born in 1862 it Folkestone, Kent In 1882 he joined the Head Office of the London and County Banking Co Ltd, in Lombard Street I ondon

and after serving there for eight veirs vis offered in appoint ment in the All mee Bank of Sunke Id which he joined on Junuary 1800

After serving is Agent of various Branches of the Allemee Mter including the Calcutte



Mr. H. P. STEISCLETOW

Brunch he was deputed early in 1903 to open a Brunch of the Bink it Bombiy In December 1006 on his return from leave during which he made a vorage round the world reaching Sin Francisco only a few days after its destruction he was offered and accepted the post of Manager of the Bank of India Ltd. Bombay which had just been started

Under his charge the Bank of India his mide very rund

progress

Mr Stringfellow during his service in London obtained by examination the certificate of the Institute of Baulers and is in associate of that body. He also on two occasions graned a high place in the examinations held in connect on with the Gilbert I ectures on Bunking. He is the author of i work on Indian Binking Piactice, published in 1807 Mi Stringfellow married in 1892 Dorothy daughter of the late Read H W Heiven, u , V car of Netheravon Wiltshire

The INDIAN ALL MINITAL Co. Ld. Madris. Lound don March 1090 for the manufacture of all classes of Munital unipood. Cap. tid ten fills of rup. Ih Min it no Director's Mr. Fraist John Hollas, who to other with Mr. Bernard Havlins and Mr. Lardley Norton the well known Parr ster not proten in Chatte found d the Company the other Dectors bong Mr M. V. Khuddus Palshe Sah b. Mr. Trans Chatterton and Mr Henry Trights ell. The capital of ten libbs of rupers ad all d nto 10 000 shares of his 100 each there in no debatures and sace the form it on of the Company in average dy dend of 7 per cent per unum his ben ped the Mineral Drector Mr Haylas a sold Minare und his a good affround busness man as yell as a thoroughly practed a ran a this particular adustry. He y is born a Bedfordshire England but his resided in Mudris for the past win Ve IIS

The Company bean the ropere tions on a small scale but in too, they purchised the Government



Mr I J Hankins

Aluminium Department of the Madris School of Art for two indthalf lakhs of rupees and in the sime year the extensive buildings in which the Company now carry on then operations were erected. They have all the most modern machinery

style of James R Heap & Co, but in the year 1900 it was amalgama ted with the old established firm of Joseph Heap & Sons of Liverpool who had been doing business with Burma from before the seventies in the last century. In the early days of their business Messrs Joseph Heap & Sons conducted a line of sailing ships, well known throughout the world as the " Mersey" Line The Company now own two rice mills at Rangoon, of modern construction, equipped with up to date machinery and appliances The mills are fitted to turn out both cargo rice and cleaned rice for the local and European markets Mr 1 P Cotterell is the local Manager the head office is situated at Liverpool, where also the Company possess rice mills

HONGLONG AND SHANGHAL BANKING CORPORATION,
RANGOON

Capital \$15,000,000 Reserve Liability of Proprietors \$15,000,000

RESERVL FUNDS

Sterling £1,500 000
Silver \$13,500,000
Head Office and Court of Directors HONGKONG

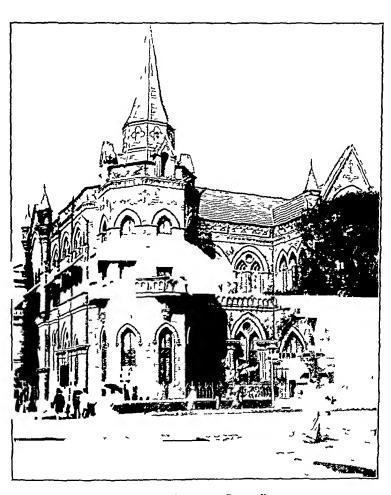
London Office —
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RINGOON OFFICE -

19 Merchant Street RANCOON



HONGKONG IND SHINCHAL BANK, RANGOON

Messis INCELL & SILK, Bentinck Street, Calcutta This firm was established in 1890 by its present founders, Mr T Incell and Mr T T H Silk Eighteen years have now elapsed and



Mr W SILK

the business is doing well and increasing by leaps and bounds. Mr Incell has been a resident of Calcutta about 40 years and is still working and enjoying the best of health he is a specimen of the old English type and his vigour and health speak well for the Indian climate which he has not left since he arrived 40 years ago

Mr Silk, of whom we produce a

photograph, is the principal promoter of the firm and assisted in its foundation 18 years ago after strenuous efforts he has succeeded, with the help of Mr Incell, in plac ing the business upon its present sound and substantial basis he has now 25 years of Indian experience, and commands great confidence from all his patrons and employees The firm employs about 500 work men, supervised by many European and Bengalee assistants, who have been of great help and assistince to the management They undertake all classes of work in the common metals, such as iron, steel, lead, copper and brass, are Engineers and Contractors, and Specialists in Sanitary Engineering,

capacity requires to bullocks. In hill stations these idvantages are still more apparent and in course of time aluminium must replace non-entirely in many of the principal municipal hospital and Jul-

requisites

The Indian Mummum Company. in iddition to munificturing every kind of aluminium requisite, either for household or more extended use supplies the metal in bulk in sheets circles ingots or scrip or in smill quantities by the pound. In this connexion it is worthy of note that while in Europe and America the greatest held for the employment of iluminium is in the iron and steel trutes more especially the latter in India it is only in very small demand by iron founders. And yet there is not the least doubt that its employment in small quantities would lead to a great improvement in the quality of the cistings turned out and to a considerable decrease in the percentage of waster- 1s a rule the idvantages of duminium have not been obtuned because in most of the experiments that have been made in his country too large a quantity of the metal has been employed. If no more than half a pound to one and a half pounds of aluminium be idded to each ton of metal in the lidle, the resulting castings will be greatly improved, while the expense involved will not be great. In engineers workshops there is a large field for the employment of aluminium Where many similar distings have to be made, it is admirably idapted for patterns as they are light easily machined and sufficiently strong to withstand a considerable amount of rough usage For bear ings, it has proved quite as durable as brass, while for face plates of lathes chucks, and an immense variety of cast-iron fittings to ma chine tools, the hard aluminium alloy possesses a great advantage over cast-iron, as its lightness enables these comparatively large pieces to be easily handled by one man. In small workshops or in places where access to a foundry is difficult the employment of aluminium and its alloys is attended with econ omy, as small castings can be produced with the most primitive native appliances and with very little trouble. The siving of time in

many cases amply compensates for the greater cost of the metal

Among the specialities of the Mum mum Company on of the most not or able is the manufacture of hospital regustes of which i great viriety of irticles and ally a c is kept in stock all in inufactured to order. Bid pans inhalers basin measures chatties bothens moressa ries filters and percolators boil s of virous patterns spatioons mill sterilizers, mill cans of varied design and plans and dishes are among the us ful articles which the Conpany stock. When the identities possed by the motal over those prevously in use the tilen into consideration than sono curse to vonder why dummum is apolly displacing all other metals in the minufacture of articles in which cleadiness is the esential point to be kept in view as in a hospital The action of vater, whether fresh or salt is much less marked in the case of alumnum than most other metals. The dilute organireads which occur in a great surety of food stufts have very little action on dum mum and the com sounds formed are absolutely harmless to the hum in system. These properties together with the fact that dum mum completely resists the action of tire renders the metal b youd all others best adapted is a material for use in themaking of cooking vessels substances is eards bare juice and tamiumd viter which are lirgely in use among the people of this country can be safely kept in alum num without injury to the fool-stuff or the metal. Munimum does not cotrode and none of the acids found in foods have parceptible corrosive action on the metal-

The Indian Muminum Company are to be congritulated on the very successful enterprise they have initiated in India and the history of the Company from the issue of its first balance-sheet in 1900 shows progressive advance. The volume of business transacted as set forth in the Annual Reports, shows satisfactory, and consistent increase while the capital and reserve fund have been added to, without interfering with the handsome dividends paid annually.

The INDIAN WAREHOUSE Company Clearing and Forward

ing Avents Engineers Supplier of Madris Starfed in the year 1939 but someoffs the pre-nt represent it ve of the old established urm of Messrs 1. H. Bo. den & Co. which was established a far bull as the year 1862 by Mr. I. H. Boy den Mr I II Boy den sub equently relinquished the busines to Mr. I. M. Bo den vho conducted a till his death which occurred one three year ago. A year later Mr. I. How rd Oalley im ile im its dathe bus ne of Me srs Borden & Co with that of the Ind in Wirchouse Company He s the sole propresor of the combined bus ne's. The Ind n Warehous Company represent leading I nel sh and American brons in In mer ne Store Pants and Varnish in which they have considerable transactions. This are proprietors of Henry's Great Indan Renede which have a large side in the country is specifies against Ind in disease. The eremede are extensively used by many and plant ing proprietors and others who have the circ of large gangs of vorlinen ind cooles Mr I Hoverd Oakley sa public account into my hich wocat on he has pract sed for more than ten years. His Assistant Mr. I Harold Boy den's encplied of Mr. M Borden Mr Oakley is a native of Wolverhampton England He v is educated at home and after leaving school to ned his brother in London a member of the firm of Messrs Oikles and Wellim Chartered Account ints - He served with th's firm for four years. In the year 1900 he came to Bangalore South Ind a where he practised his profession for a time. His firm the Indem Warchouse Company are largely engaged in clearing and forwarding business on behalf of merch ints and others residing in the Mofussil

The IRRAWADDA FIOTHIA Company I united Steamship Owners, Shipbuilders, Warine Engineers Dockvard Proprietors etc Rangoon Established 1865 in which year the local Government of Burma made over a small fleet of steamers to the promoters of the Company were necessarily on a small scale at first and three years later, in 1868, the Com-

and large drawing presses, with a first class engineer in charge New and additional machinery of the value of Rs 50,000 was put up in 1908 and this is driven by a 40 horse-power gas engine. They also have a large foundry fitted with the latest machinery, and here are manufactured all the articles of brassware, iron, etc. used in the

such as dies and stamps The works cover an area of about four acres and there is ample accommodation for everything constituting a selfcontained indus try with facilities for carrying the large amount of stock which is always kept on hand About 400 hands are con stantly employed and the Company manufacture for the wholesale trade The total annual consumption of aluminium in the whole of India is only about one hundred tons, so this Company as it ic counts for over 85 percent of the totalamount may be said to practically control the ındustry 1 con siderable mpetus would be given to this industry if means could be devised for the manufacture of the metal in the country, in preference to its importation but ap-

Aluminium Works,

parently sufficient inducement has not been forthcoining. As showing the demand that has been created it is interesting to note that within the last six years the Company have manufactured about 120,000 water bottles for issue to the various branches of the military service, and upwards of 260 regiments and bat

tenes have been equipped. This apart from domestic demands affords evidence of the various uses to which aluminum can be successfully applied. Among British troops the use of aluminum is rapidly extending for all articles of domestic use, and the reduction in the veight of the cooking utensils of a regiment may be taken at lifty per cent, or even

SPICT MUNG LATURE ET TISSAGE RODIER mond . COURT ETPERENTED . CANCARORE COLLEGE ENGINEERING REWERY **VILGINIS** KODAIKANAL CLUB

THE INDIAN ALUMINIUM CO ID

more What this means may be judged from the fact that while, before the introduction of alu minium, eight mules were allowed to each regiment, or one for each company, under the new conditions one mule can easily carry the cooking utensils for two companies, leaving four mules per regiment avail

able for other duties. So long as brass and copper vessels were used in Native regiments, the equipment was obtained from the bazaar and Commanding Officers had usually to design their own sets. The concentration of all the aluminium business in Madras has led to the accumulation of much experience in these matters, and there is no doubt that

the sets of alu minium vessels now made up are more compact and much better adapted to service requirements than those they have replaced

Probably the most mportant held for the cm ployment of aluminium discovered during the last few years is in the manufacture of munic pal conser vancy appliances \ ghtsorl has no action whatever upon duminium consequently it can be used in place of aron with great advantage In the first instance the cost of aluminium appli inces is greater, but they are easily kept clean flushing with water only, while then durability is so great that they have been found when working side by side with iron appliances to be perfectly uninjured, while the latter have been worn out and unserviceable Moreover,

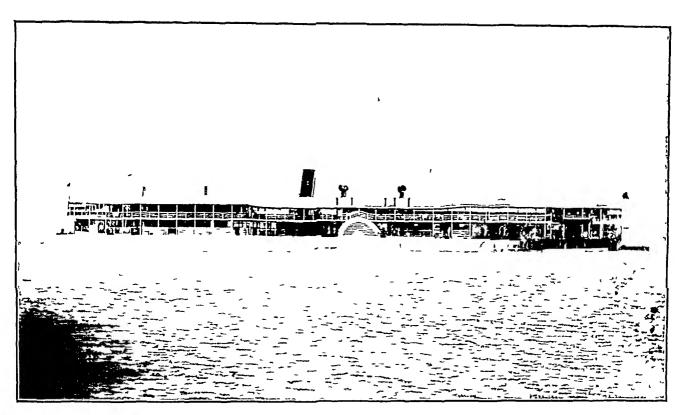
the lightness of aluminium is a great advantage in carts and buckets which have to be handled a great deal and transported over considerable distances. The standard pattern conservancy cart, the tank of which has a capacity of 600 lbs water, can easily be drawn by one bullock, whereas an iron cart of the same

pany's fleet contained no more than seven small vessels, with which trade was carried on within the limits of the Province of Lower Burma, the vessels plying principally between Rangoon and Thayetmyo, a distance of about 350 miles There was no steam communication in those days with Mandalay, Bhamo and the towns of Upper Burma, such an enterprise not having been yet thought of It was due to the able judgment of Mr G J Swann, CIE, who took charge of the Company's affairs as Manager at Rangoon, that the possibilities of the situation were developed To him is due the credit for the extension of the operations of the Company to Upper Burma, and under his skilful management and far-seeing sagacity the service of steamers was extended, not only to Mandalay and Bhamo, but also to most of the navigable rivers, creeks and estuaries of Lower Burma The operations of the Company were thus expanded fully a thousand miles, which is the distance of Bhamo, a town on the confines of Western China, by river from the sea Communication, by an efficient service of suitable steamers, was also established between Rangoon and Bassein, the most important town and seaport on the Western mouth of the great river Irrawaddy The fleet which had such small beginnings in 1868 rapidly increased, and now consists of 350 vessels, large and small, of an aggregate tonnage of 92,500 tons At present the Company run a service of fast Mail and Cargo steamers, three times a week, between Rangoon and Mandalay, and a similar service, twice a week, between Mandalay and Bhamo They have a large number of ferry services on the main river and its tributaries, and on the network of creeks in the delta, as well as on the Salween River and tributaries, providing ample facilities for the transport of passengers and merchandise from the interior to the seaports of Rangoon, Moulmein and Bassein The steamers owned by the Company are of the most modern and improved type, are fitted with all the latest appliances in marine engineering, and are specially adapted for river navigation in a tropical climate They have mostly

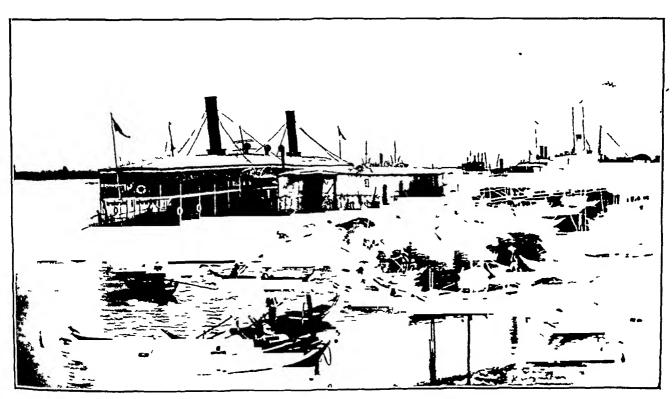
been built in the well-known shipbuilding yards of Messrs William Denny and Brothers of Dumbarton on the Clyde The late Mr Peter Denny, LLD, was for many years the Chairman of the Company in Glasgow The Company maintain an extensive and well-equipped dockyard at Rangoon, and similar though smaller establishments at Moulmein and Mandalay At the Rangoon Dockyards, in addition to general repairs to the Company's steamers and flats, vessels are constructed from materials imported Besides their own from home work the Company do a large amount of work for the Government and general public The express steamer Japan was specially fitted up for the reception of T R H the Prince and Princess of Wales during their tour in Burma in 1906 by the Company Their Royal Highnesses expressed very great appreciation of their three days, trip on the Irrawaddy on this steamer The illustration given on previous page 15 of a sister vessel to the Japan The Company has other difficulties to contend with besides the up-keep of their immense fleet. The river itself demands serious attention In the rainy season the Irrawaddy rises thirty to forty feet above its dry season level and during this season of flood the difficulties of navigation are reduced to a minimum, but towards the end of September the level of the river falls rapidly and continues to fall till in the hot season, March to April, it attains its lowest level Very great difficulties arise, owing to the silting up of old channels and the divergence of others The Company have to expend very large sums in keeping the channels clear for navigation by means of groynes and sunken disused vessels, to ensure a free passage for their steamers during the critical period of low river Very extensive and expensive operations have also to be carried on in buoying the channels during the dry season, and the Company's pilot launches patrol the river throughout its entire length, shifting the buoys as the channels alter, and supplying information to the commanders of the steamers In 1885, on the declaration of war by Lord Dufferin, Viceroy of India, against King Theebaw, the whole of the

Company's resources were placed at the disposal of Government for the conveyance of troops and stores to Upper Burma The Company's aid was of infinite value, and the rapid success of the expedition was largely due to the skill and energy of the Company's representatives and the facilities afforded to the Government by the Company's resources This was fully recognised by the Government of India, who acknowledged their obligation in a letter of thanks to the Company and created Mr G J Swann, then General Manager in Glasgou, and Mr F C Kennedy, Manager at Rangoon, Companions of the Order of the Indian Empire Mr Kennedy is now a Director of the Company, he was succeeded in the management in Burma by Mr J G Findlay in 1895 who again was followed by J P Hay, wvo, in 1903 The present Manager of the Company in Burma is Mr R I Wilkinson

Hadji MAHOMMED YOUS-SOOF ISMAIL Saheb Effendi, AIH, Merchant, a Consul for Turkey, Rangoon, was born at Rander, Surat District, in the Bombay Presidency, in the year 1862 He came to Rangoon at the age of eleven and received his education at the Madrassah Mohammedia, Randera Hadii Mahommed Youssoof Ismail's father was a wealthy merchant, and on leaving school at the age of twenty-one Hadji Mahommed Youssoof joined his father in business. In the year 1896, the father retired from business and Hadji Mahommed Youssoof has carried on the business by himself ever since In 1896, he also became a Director of the Surtie Bara Bazar Co, Ld, and Bootataung Co, Ld He was actively employed in these Directorships until 1906 when he resigned In the year 1900 he built a Rest House at Rangoon for all nationalities at a cost of Rs 1,30,000 Lord Curzon honoured the undertaking by declaring it open on the occasion of his visit to Rangoon Hadji Mahommed also built a Mahomedan Girls' School at a cost of about Rs 50,000 and has supported many other charities in the course of which he has bestowed about three lakhs rupees In 1900, he was



IRRAWADDA HOTHIA CO'S ENPRESS STEAMER "INDIA"



KIVER SCINE RANCOON SHOWING ONE OF THE VESSELS OF THE IRPAWADDS FLOTHER COMPANY KANCOON



THE JAMAL COTTON AND OH MILL, MAINCAN



THE JAMAL UPPER RICE MILL, KEMMENDINE, RANCOON

honoured with the Kaiser-I Hind Medal by the British Government In 1904, he was made Honorary Consul for Turkey and created a Commander of the Order of Imperial Medjedie by the Sultan

Messrs A S JAMAL Bros & Co, Head Office, 26, Merchant Street, Rangoon, Rice Millers, Cotton Ginners, Oil Millers, Saw Millers, General Merchants, Bankers and Commission Agents Rice Mills — Upper and Middle Kemmendine Oil Mills -- Rangoon, Myingyan and Allanmyo Saw Mill -Allanmyo Burma Branches — Mandalay. Yegyo Bazaar, Myingyan, Ginning Factory, Allanmyo, Ginning Facfory Mahlaing, Ginning Factory India Branches — Bombay, Katha Bazaar, and Calcutta, 23, Amratolla Lane The business was established in the year 1868 by the late Mr Abdul Shakoor Jamal The firm are proprietors of Cotton Mills, Cotton Ginning and Pressing Mills, Oil Seed Crushing Mills and a Saw Mill They have lately taken up Petroleum pro-

ducing and refining The firm possess two Cotton Mills which were first started in the year 1897, one at Myingvan and the other at Allanmyo These mills perform the operation of ginning only, the cotton being exported to Europe At first the Buima Cotton Industry was a very small affair, but it is now growing rapidly and has already leached the output of about 30,000 bales of 400lb each per annum In 1899 the firm started their Oil Seed crushing business, being the first in India and Burma to extract oil from cotton seed They have since elected up-to-date plant, and also crush til seed and ground nut Messrs Jamal Bros took up the business of mineral oil producers and refiners in 1904 In this they have met with such success that they are now erecting a new plant with refinery complete at Syriam, next to the Burma Oil Company's Works Besides the above enterprises the firm carry on an extensive busi ness as Exporters and Importers They possess Rice Mills situated

at Kemmendine, erected on the banks of the river, where they put through about 100,000 tons annually They also own an Oil Mill at Kemmendine, where they extract about 40 tons of oil per day All the Mills, which are the property of Messrs Jamal Bros, are substantially built, and equipped with the most modern machinerv The firm are the sole proprietors of the various enterprises which they carry on The present partners are Messrs A K A S Jamal (senior partner), M A S Jamal and 7 A S Jamal

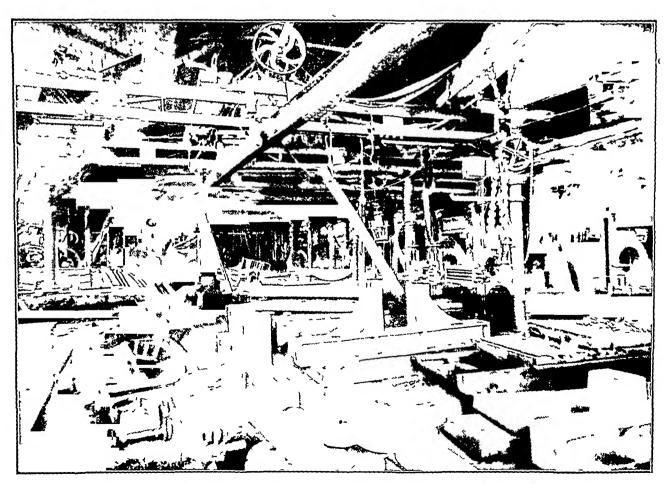
Mr ABDUL KARIM JAMAL, sentor partner of the firm of Jamal Bros and Co, of Rangoon, is the cldest son of the late Abdul Shakoor Jamal He was born in 1862 in India and educated at the Rangoon College, having arrived in Burma as a child, with his parents On growing to manhood, he joined his father's firm in which he gained his commercial and business training as a general merchant He took charge of the



, THE JAMAL MIDDLE RICF MILL, KENMENDINE, RANGOON

first Engineer in India to manufacture Hydraulic Cotton Baling presses, for which he obtained a cons devable reputation. The firm has now improved upon its original manufacture in this line and by substituting steel for the top and bottom sills of their presses, have rendered them unbreakable and superior to the best English and American manufacture The firm makes a speciality of Hydraulic Engineering They also manufacture all descriptions of machinery, and cast at their foundry to the orders and patterns of the public The output of the foundry is ten complete presses per year, and the demand for the work of the firm exceeds the supply They supply various castings to the cotton mills viz, Bombay United, Khatan Mulany Markey Caladaa Dan Mukanji, Morarjee Gokuldas Dinshaw Petit Framjee Petit, Manechji Petit, Bomonjee Petit, Sassoon Spinning and Weaving Co, Ld, Spring Mills, Empress Mills, Sir Currimbhoy Ebrahim and other Mills in Bombay They have also contracts with the Bombay Mint and G I P Railway They work wrought and cast-iron, steel, and gun metal At their works some 500 hands are employed Their godowns are at Prince's Dock where Engines, Boilers, Scales, I athes, Donkey Pumps, and Mill requisites are stocked Messrs Jamasjee and Maneckjee represent Messrs William Arnott & Co, of Coatbridge, near Glasgow, for Boilers, and Rice & Co, of Leeds, for Hydraulic Pumping Engines, Messrs Brazil, Stokes & Co, of Bristol, for Steam Engines, compound and non-condensing The Dudbridge Iron Works of

Stroud, Gloucestershire, for Oil Engines, and have several other agencies The founders of the firm, Messrs Jamasjee and Mineckice, died in 1908 and 1902 respectively Mr Jamasjee left three sons, Maneckjee Jamasjee, Piroozshav Jamasjee and Rustomjee Jamasjee, who are all interested in the firm and are now serving their upprenticeship there in The present senior partner is Mr Dhunjishav Merwann who was born at Poon; in the year 1872, and educated at St Vincent's School in the same city, and served his apprenticeship to the engineering trade in Bombay He served with virious firms in different parts of India, is engineer, und ultimately joined Messrs Jamusjee and Muncekjee as their agent, and represented them all over India He then served the



INTERIOR OF MESSRS JAMASJEE AND MANECHIFE'S NAPIER FOUNDRY, BOMPAY

business in piece goods and silk in the year 1882, and on the retirement of his father in 1884, he took entire charge of the whole business. Mr Abdul Shakoor Jamal died in 1888. His son, the present Abdul Karim Jamal, shortly added business in rice and paddy to the piece goods business, and subsequently started the trade in cotton and vegetable oil, being the pioneer of this enterprise in Burma. He has since added the other concerns owned by the firm in the local districts, which have all met with distinct success, and have been instrumental in in creasing the trade and population



Mr 1 K 1 S Jami

of the districts concerned to such an extent as to have gained the favourable notice of Government for the firm of Messis Jamal Bros. Mr. Abdul Karim Jamal interests himself in education and is a promoter of great advances in educational facilities for Mahom edans. In Rangoon and India He has in particular made handsome donations to the M. A. O. College at Mighth and also came to the hid of Mahomedan education in the Bombay Presidency.

Sir COWNSIEE JEHNGIR Born at Bombay in the year 1853 Educated at Propressary

School and Elphinstone College at his native town Sir Jehangir is a descendant of Heerjee Jehangir the pioneer of the trade between India and China, and banker to the East India Company The promptitude of his cash transactions was such as to earn for him the name " Readymoney " which was adopted and has been borne by the family ever since \ recent distinguished member of the family was the late Sir who Cowastee Jehangir descended in a direct line from the founder of the family and was uncle (by adoption) of the present Sir Jehangir To his public spirit is due the Bombay Eve Hosp til Government College and Senate House, the Surit Hospital the Poona College of Science and the Hyderabad (Snd) Lunat c Asylum The present Sir Jehang r was Knighted in the year 1805 and last year on being made a Baronet, he assumed the name of S1 Cowastee Jehanger He is very prominently connected with the flourishing Bombay Will Industry He Chairman of the Coorla Jubilee and Hope Mills three of the largest concerns in the Western Pres dency In these he invested a proport on of the large fortune he nherited from his uncle the late Sir Cowasiee Jehangn is also one of the largest landed proprietors in Bombay and the greater part of Malabar Hill, Bombay is his property. He is a Fellow of the Bombay University a Justice of the Peace, a delegate for the Pusec Matr montal Court and a member of the Committee of the Bomba Mill Owners' Association a member of the Native General Dispensary (Bombay), and Charm in of the Cowasjec Jehang r's Garls School (Bombay) and the High School for Boys at Gunday Guzer it His res dence at Bombay, 'Ready money House" is the scene of princely hospitality and where he has had the honour of entertaining the highest in the land. His health necess tates frequent visits England and at h & I ondon res dence he is no less well-known to his English friends and there he also offers a rally ng point for the Parsec Community in England harpily maired to a daughter of Ardesir Wadin, of Lowice Cristle and

has a family of one son and two daughters In all his projects he has the active support of Lady Jehan ir Si Jehangir has always been noted for his public spir ted liberal ty as was h s uncle before him. The Jehangu Hall of the Imperial Institute was erected through his generous donaton of two lakhs of rupees. His contribution to the Su Cowasici Jehangir Ophthalmic Hospital was Rs 30 000 Pr nce of Wales Museum Rs 50 000, Cama Hosp tal Rs 45 000, Mrs Adams Wale Hosp tal Rs 5 000 Fram rat on Hall for the University of Bombiy 5 25,000 Science Laboratories the Bombay Presidency



Sir COWISHI JIHANCH

Rs 400 000. In recognition of his services to the community he was created a Baronet by the lying-Emperor on June 26, 1908.

Mesers JAMASJEI AND MANECK (FE Lugineers and Contractors Nap er Foundry, 158, Foras Road Byculla Bombay Established in the year 1888 by Mesers Jamasji and Maneck jee Both these gentlemen are since deceared. The firm's business as originally constituted included commerce and dealings in all kinds of mach nery Mesers. Jamasjee and Maneck jee were the first firm is ho imported and stocked engines. Follers, etc. at Bombay, and Mr. Jamasjee virs the

business were introduced. At this time were added, Tables for Double I ndowment, Half Endowment, I erm Endowment, and various tables.



The late Mr. GSAN CHAND (Manager and Actuary)

under whole term with respect to

making payments There were also added Endowment and Whole term combined, and Whole term and Annuity combined Mso Rupee Policies in which the monthly premium was one rupee, were intro duced A further addition was Ladies' Endowment The business of the "Bhaint" has grown to very large proportions and its vast organisation in cludes branches and chief agencies throughout India at Lahore, Rawal Pindi, Aimere Delhi, Lucknow, Nagpur, Ahmedabad, Bangalore, Calcutta and Bombay At the end of 1907 the total funds of the "Bharat" amounted to Rs 7,84,736 and at the same period its insurance of various descriptions totalled Rs 55,98,699 There were 4,250 effective policy-holders first Manager and Actuary of the Company was the late Mr Gyan Chand who was appointed Secretary in September 1898, from the Punjab Hindu Family Relief Fund, where he had been employed in the same capacity Later on he was ap

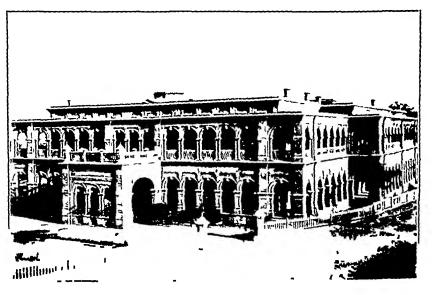
pointed Manager and Actuary and this position he held till the time of his death which occurred in May, 1906. The services which Mr. Gyan Chind rendered to the 'Bharat'' were extremely valuable during the ten years during which he held office and this fact vas fully recognized by the share holders who alloyed his children a bonus of Rs 1 000 besides a life Annuity of Rs 15 per month to hs vidos. The next incumbent of the office of Manager and Actuiri vas Pandit Mohan I il laku, but his term was short, and he died m ictive duty having however distinguished himself by his energy as a curvisser during his brief term. The Hon ble Mr. Hukishen Lil is the Churman of the Board of Directors of the Bharat Insurince Company The other Drectors are Ru Salub Lali Bishan Das Personal Assistant to the Manager of the North Western Radway Seth E C Jussia alla Proprietor of the firm of Jamsetjee & Sons I dr Balmok and of the firm of Messrs Chota Ial I da Prabhu Dial BA Pleader, Banker and Factory owner and Sheikh Um'u Bakhsh n's Pleader Pun jab Chief Court Mr I upat Rai Sahm is the present Minager of the concern The "Bh trat Buildings" where the affairs of the "Bharit" ire maniged, are the Company's

ovar property. It is contemplated to make the posts of the employed pensionable to which end is small beginning has already been made.



Mr. Lyear Kar Saint

The PUNIAB PUBLISHING AND STAHONERY COMPANY I mited. Established in 1898 with a capital of Rs. 50,000 with the object of creating a healthy vertical unifortunately the case, however, that there was found no public demand.



BHARAT BUILDINGS, LAHORI,

same firm at Bombay, on construction of Hydraulic Cotton Presses and supervised the erection of their present Foundry at Foras Road, Byculla, Bombay He was next appointed Chief Engineer and Manager to the firm, and generally superintended their business. He was admitted a partner in January, 1908, and became senior partner on the death of Mr Jamasjee on 8th September in that year

JOINT STOCK COMPANIES IN THE PUNJAB Of recent years great strides have been made in the establishment of limited companies and mutual benefit



I ate Ru Sahib Labdha Ran Saha, Ci

associations in the great province of Upper India Previous to the last ten years the people of those parts knew but little of these useful institutions and it is mainly of the due to the activity Hon'ble Mr Harkishen Lal of whose life we give a sketch further on that Companies and Associations are springing up in the land of the Live Rivers. The Hon'ble Mr. Harkishen Lal him self supervises no fever than n neteen different Companies and Associations and may fith be called the Founder of Joint Stock Companies in the Punjab The Auditors of most of these concerns are Messrs Basant Ram and Sons represented by Pandit Balak Ram Budya. They are also the Auditors of various other Indian and Government concerns in the Province of the Punjab, and United Provinces of Agra and Oudh

The PUNJAB MUTUAL HINDUFAMILY RELIEF FUND, Lahore The Fund was originally started by certain benevolent em plovees of the North-Western Railway of whom the late Rai Salub Labdha Ram Sahni, ce the first President of the Board of Directors. and Rai Sahib Bishan Das the first Honorary Secretary and pre-sent President were the leading spirits The Fund was established with the object of providing for the widows and orphans of deceased members, and the subscription to obtain these benefits was fixed at Re I per month with an additional subscription of Re 1-8 per annum the latter for the purpose of providing for the upkeep of the establishment and the payment of other charges At the time that Mr. Harkishen Lal settled in Lahore the Fund had already been estab-It in early opportunity he lished was elected as one of the Directors He was subsequently made Vicc-President and President of the Board of Directors He re-organ ized the Fund upon business lines and obtained its conversion into a registered body The Fund has been very useful Its membership now amounts to 9,340 and the large sum of Rs 8,14,516 has been distributed among the relations of deceased members up to end of the year 1907. Its opera-tions have now been extended to some of the districts in the United Provinces.

All the Directors give their services on an honorary basis

PUNJAB NATIONAL BANK, Ltd., Lahore Established in the year 1895 with a capital of Rs 200 000. Mr. Harlishen Lal was the first Honorary Secretary to the Board of Directors, but has since disassociated himself from the concern, his views on extens on being too advanced for his coverliers. The Bank has prospered and its subscribed capital now stands at Rs 10,00,000. Eleven

branches have been established and the working capital at end of 1907 was Rs 67 51 079

The BHARAT INSURANCE COMPANY Itd Inthever 1806 when this Company was started the principles of insurance were quite nev to the people of the Panjab Mr Harkishen I if the promoter of the enterprise found from the beginning that he had set himself a difficult task in ender-vouring to obtain support for the venture. It cost him a hard struggle and several months of work before he could even complete such preliminaries as registration.



Ru Schib LAIA BISHAS DAS

but in August 1896, he succeeded under many discouragements in starting the Company with a capital of Rs 5,00 000 In the following years confidencely as more assured and it is in the veir 1907 that the cipital of the concern vis raised to Rs 10 00 000 which is fully sub-cribed. On its establishment the Bharat Insurance Company only undertool life businesbut shortly aftery ards its scope vais extended to embrace Marrage and I ducat on Tables for children and Fidelity Annu ty Fables year al a introduced. After the en se re of existence in the very roof the prospectus visit reas if and in a impro events for the oil of a of

trinster it to Lahoic where it his since been situated. The Miniging Director is Mi Hir kishen. Lil. und Lila Anindi Pirshid eets is General Miniger. The working funds of the Bruk imounted to Rs. 12.77.786 at end of 1907. It has branches and agencies at Gurdaspore Bittle Amiltsai. Furn. Luin. und Gurgion.

The INDIAN NATIONAL TRUSTER ASSOCIATION Limit ed Inhore Registered in 1906 for the purpose of effecting trustee business is administrators and icceivers to estates guardians tovards clients and characters taking charge of investments and securities and duties of a cognate character The capital has been placed at Rs 500 000 Mi Harkishen I d is Honorary General Manager The Honorary Directors in Rii Biha dur Lala Hari Chind, Pleider Multan, Ru Bahadur Surdar Amril Sing Ru Sahib I ila Bishan Das Personal Assistant to the Miniger N-W Railway, I ala Prabhu Dial Pleader and Banker, I ahore Sheikh Umar Bakhsh Pleader Lahore and the Hon'ble Mr Harkishen I al

The PIONEER INVESTMENT COMPANY Limited Lahore Registered 1906 Capital Rs 5,00,000 This new concern was started with the object of assisting dealings in shares, and its business consists in acting as advisers to investors and also dealing with people whose operations are limited and who prefer safe investments

Messrs HARKISHIN LAL & COMPANY, Meichants Agents and Contractors This firm was established by Mr Harkishen Lal for the purpose of giving him facilities for managing and looking after the multifarious concerns in which he is actively interested Associated with Mr Harkishen I al, who is the chief partner, are Rai Sahib Lala Bishan Das, Sheikh Umar Bakhsh and Malik Girdhari Lal The Head Office of the firm is at Lahore and the branches at Calcutta, Bombay and Karachi

Mr Harkishen Lal is also interested in the Pioneer Leather Works, Itd capital Rs 2,50,000, the Pioneer Jewellery Company, Ltd,

cipital Rs 250000 Century Ilom Mlls Co Ital cipital Rs 500000, and the Golden Comming and Press Co Ital cipital Rs 100000 which are in their infiney having only been started

the COMMERCIAL DIMY I there. This institution vas established by Mr. Harlishen I if in April 1905 to compass the following objects (a) to issocrate professionally for the purpose of improvement of I nov ledge and in forn ition those engaged in the management of joint stock and other concerns or who are other wsc folloving various professions in connection with tride and commerce (b) the truning and in proxement of the I nov ledge of the employees and candidates for employment in joint stock and other concerns (c) to promote the study in theory and practice of economics and economic questions with spec il reference to Ind i (d) the organising and munitiming of i school alibrary and a reading-toom at 1 thore of economics trade commerce and subsidiary related subjects (e) devising meins for testing the qualifications of candidates for employment in joint stock and other concerns and granting certificates of qualifications to successful c indidites (t) holding conferences and meetings and (g) taking such further steps for the promulgation of these objects is may be deemed necessary and conducive. In connection with the Academy and for the purpose of furthering its objects a monthly journal styled the "Commercial Academy Journal" was started in September 1906 and is regularly published. A library of books on commercial subjects has been got together Mr Harkishen Ial's scheme is however in advance of the times and as with other pioneers he has had to put up with disappointments The school established to impart knowledge of commercial subjects has not found support from the public and it has had for the time being to be closed Mr Hai-kishen Lal however, is not discour aged and the institution is time goes on, and the people have then eves opened to the value of commercial and industrial education may

be expected to effect the object which its promoter has in view. Mr. Harlishen I das the Charman of the Board of Governors of the Commercial Academy and Mr. Lala Lapat Rai Sahmas associated with him as Honorary Secretary to the institution.

Messrs KAHN & KAHN Pombut was founded in 166; in Piris under the name of Messrs Hermann & Kilin which is changed in 1887 to that by which it is now known Messrs Kahn& Kahn | The Bomb av Branch vas opened in 1889 under the management of Mr B Schnabel tho tas succeeded in 1895 by Mr. O. St. Go in the latter giving place in 1903 to Mr. Percy Clare Besides the branches at Delha and Amritsir mother vis opened at Cilcutts in 1901 under the joint management of Messrs Walter Lomax and Robert Bazley A Brinch also his been opened in Ixons (Irance) under the point management of Messrs J Tchodev and Geo. I. Browne and there are Agencies in London. St. Lienne. and Bale

The firm own the principal neterest in Messrs Kahn & Co. Ed. Hamburg of which concern Mr. O. St. Goar is the Managing Director

Besides their extensive export tride to Ind i Chini and Japan they import largely to the United kingdom and the Continent of Purope Chinese and Japanese silk piece-goods this being a tride which they were among the first to handle some 25 years ago

They have also a large and growing connection in the United States which the I vons House particularly attends to

The partners are Mr. Herbert Ernest Kahn, Mr. O.S. Dar Kahn Mr. E. Philip, and Mr. Max Adler

Mr M M KAKA Chief Agent I ondon and Lancashire I ife Insurance Company and the Norwich Union I ife Insurance Company Born at Bombay in the vert 1870 and educated at Bombay Fort High School Left school at 17 years of age and secured an appointment in the Oriental Life Office is a junior He remained in this office for nearly 7 years during which time he was promoted to a more responsible

for literature of this kind, and the promoters were obliged to abandon the idea and convert the business into a general stationery depot to the various firms and public bodies. The Managing Director of this concern is Sheikh Umar Bakhsh

The LAHORE SPINNING AND WEAVING WILLS COM-PANY, Limited This concern was organized in the year 1898 with Mr Harkishen Lal as its Managing Director The capital was placed at Rs 10,00,000, out of which up to end of 1907, 7,17,750 was paid up At the same period the working capital of the concern stood at Rs 15,87,179 The Company carry on business in spinning and weaving, owning mills for the industry at Shahdara some five miles out of Lahore, and two feeder ginning factories one at Kasur and another at Sarhand This venture has proved a complete success It has paid dividends of from 7 to 10 per cent in the past few years, and machinery and buildings have been written off to the amount of Rs 75,000

PUNJAB COTTON The PRESS COMPANY, Limited This business commenced as a small partnership concern, but its great increase necessitated its conversion into Joint Stock Company, which was effected in July 1900 The capital was at first placed at Rs 60,000, but as demand arose it was increased from time to time till it now stands at Rs 10,00,000 The profitable nature of the business carried on by this Company has caused its shares to change hands at a premium of from 15 to 17 per cent Mr Harkishen Lal has held the position of Managing Director to the Punjab Cotton Press Company since its inception The factories for ginning and pressing owned by the Company are at Tobatek-singh, Najibabad Sargodah, Pattoki, I vallpur, Meerut, Hissar and Tandoadum As the success of such a concern depends naturally upon the cotton crop which is not a stable factor the Company has had to meet unfavourable years Such contingencies have been provided against by the Directors who have extended the scope of their business and added a workshop at Shahdara, an Ice Factory at Lyallpur and another at Kasur, and an Oil Mill and a Flour Mill at Kasur as a stand-by In most of above the same power is utilised as laid down for the cotton ginning factories In addition, a large Flour Mill with complete plant at a cost of Rs 4,50,000 was established at Shahdara near Lahore in the year 1906 These additions to its scope of operations will enable the Company to carry on a profitable business even in years when the cotton crop, its original sole dependence, is a failure At the end of 1907 the working capital of the Company stood at Rs 30,76,325

PEOPLE'S BANK OF INDIA, Limited, I ahore On severing his connection with the Punjab National Bank in 1907, Mr Harkishen Lal started the above concern with a capital of Rs 2,00,000, which has now been raised to Rs 25,00,000 The Bank undertakes general Banking business but pays special attention to remittance business and for this purpose has established branches and agencies generally throughout India but more especially in the Punjab The Bank had at first to overcome a determined opposition from those interested in the Punjab National Bank, but has successfully surmounted this difficulty Its branches are established at Bannu, Bahawalpur, Bombay, Bazaz Hatta and Anarkalı (Lahore), Cawnpur, Dera Gazı Khan, Dera Ismail Khan, Gujrat (Punjab), Gujranwala, Hafizabad, Hoshiarpore, Hyderabad (Sindh), Jullunder, Jammu, Jhang, Jhelum, Karachi, Kasur, Kohat, Larkana, City, Multan Cant fargarh, Patiala, Pe VIuzanetta City, Quetta Cantipindi City, Saharipur, Sialkot City, Si Umballa City, Ument, Kapurthal Khairpur Mir, I awalhıkarikkur, ıntondah, cutta, Muzafarnagir and

Ferozepur The following gentle men are Directors of the Company —The Hon'ble Mr Har-kishen Lal, Bar-at-law Lahore, Mr Ganpat Rai, Bar-at-law, Lahore, Bhai Gurdit Singh, Rais and Jagirdar, Lahore, Sardar Dharam Singh, ce, Gujranwala, Sheikh Umar Bakhsh, Pleader, Lahore, Rai Bahadur Lala Hari Chand, Multan, Rai Bahadur Srikishendas, Delhi, Lala Narain Das, Pleader Dera Ismail Khan, Lala Anant Ram, Deputy Quarter-Master General, Srınagar, Sardar Gajjan Singh, Pleader, Ludhiana, Rai Bahadur Lala Sham Das, Pleader, Hoshiarpore Lala Tara Chand, Pleader, Lyallpur, Malık Hoshnak Raı, Pleader, Lyallpur, Lala Mool Chand, Pleader, Peshawar Munshi Sadaruddin, Pleader, Peshawar, Raizada Ram Chand, Honorary Magistrate, Multan, and Bawa Parduman Sing Pleader, Jullunder The positions of Managing Director and General Manager are held by the Hon'ble Mr Harkishen Lal and Lala Deokinand respectively At the end of 1907 the working funds of the Company amounted to Rs 61,20,000

The KANHYA I AL HARNARAIN SINGH, Limited, Lahore This concern was originally a private partnership carrying on business in the manufacture of bricks, and dealing in lime and other building materials and as general contractors. Its conversion into a limited Company was effected in 1903, the capital being Rs 50,000 which subsequently increased to Rs 1,00,000 Bhai Gurdit Singh I ahore is the Managing Director to the Company

The AMRIISAR BANK, I Imited, Lahore This Bank was established in 1904 by Mr Harkishen Lal as a second string to undertake business outside the scope of the People's Bank of India Its capital was originally Rs 2,00,000 but has now been raised to Rs 5,00,000 The Head Office of the Bank was originally established at Amritsar in 1904 but two years later it was found more convenient to

thice times. He was present at the taking of Mandalay and capture of king Theebay in 1885. He received the medal and clasp tor Mghanistan 1887-80 and two clasps, Burma, 1887-87 clasp, Mampur 1889-92 and medal and clasp, Chitall, 1896 clasp Chinal ushar, 1889-90. He rose to the rank of Warrant Officer and retured with this rank in the year 1902. He started a farming and cattle breeding establishment in Jubbulpore, Central Provinces and also went into the contracting business for Government as well as private people. He is well equipped for this business as he passed a course



Mr W E Krocu

of dairy farming in England, and is considered an expert in the making of Cheddar cheese. He is proprietor of two villages about twelve miles from Jubbulpore, where the produce is chiefly potatoes. Mr Keogh is married to kate, fourth daughter of Mr James Brennan, of Allahabad.

Messrs LATHAM BLACK & Co, Import and Export General Merchants Rangoon Branch of the firm of Wilson Latham & Co, of Manchester, where their head offices are established The firm deal in piece goods which they import largely, and in return export general merchandise and country produce

the Rangoon house was opened in the year 1892. There is also a branch it Bombay trading under the name of Litham, Abercrombic & Co., which was established in 1882. The partners are Messes. A Abercrombic, J. M. Handasyde Dick, W. H. Dalrymple, and Win Kidston Glen.

The IAWRENCE ASSILM PRISS This Institution is one of the oldest Luropean ventures in India existing at the present day It dates from the time before the English power had established itself in the supreme position it subsequently obtained. In the year 1786 the Directors of the fist India Company having dready established in Asylum for the orph in children of soldiers who died or very killed in their service in Bengil, recommended the estab hishment of a similar Institution at Madras where the I propen army was in even greater numbers. The Local Government caused enquiries to be made and discovered that, at the various stations there was as many as 250 orphans left without provision. Subscriptions were raised and the Directors of the Company made a grant-inaid ind the Midris Military Mile Orphan Asylum" is it was at first falled, came into existence in the year 1787 Three years later the number of the inmites had so increased, mortality among European soldiers in the East from disease and battle being very high, that the question of funds became urgent, and the Revd Mr Keir the then Superintendent, proposed the establishment of a printing press for the purpose of contributing to the finances of the Institution and providing occupation for the pupils From such records as exist, many of the documents being missing, probably lost in the great flood in Fort St George in 1835, it appears that the press was installed on 13th April 1790 For the first ten years progress was small, but in 1800 the Governor-General placed the Government printing in the hands of the press, with the result that the Asylum soon became selfsupporting and in need of no further aid from the Government or public At the time the Government contract was obtained, despite

the utmost economs, the lineares of the Asylum were it very loved bb and this contract cas practically the silvation of the Institution From this time forward the chief support of the Asylum was the press which became very profitable although the rates it which the Government work was done vere but half those previously paid by the Government Among other publications there y is issued from the Asylum Press the Government Gazette' which is the forerunner of the ! Fort St George Greette existing at the present day. The Greatte in these days also partook of the nature of a new spaper, and



Mr W. Memoro

was the best news sheet then extint in Madras The profits of the Gizette were equally divided between the Asylum the Government and the Agent and the Editor The rapid success of the press is shown by the fact that in 1800 when the Government contract was secured the profits of the establishment were 605 pagodas but in the following years they rose to 1,692, 8 705 10 200, 6 273 6,150 6 841, and 6 270 pagodas respectively. In 1808 the Asylum authorities added a binders and paper manufactory in connection with the press but the latter venture was not found probable after a time, and it was abandoned The records show that up to the

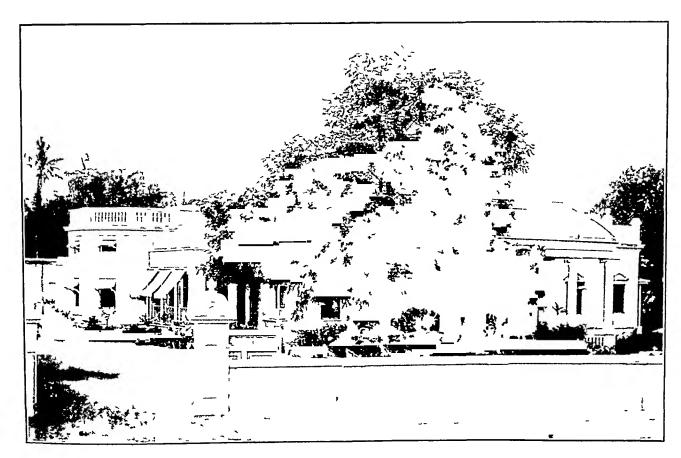
position In the year 1893 he obt uned an appointment as Travelling Agent to the London & Lancashire Insurance Company He represented the Company in this capacity until the year 1900, when he was appointed their permanent representative at Hyderabad During the time he acted as Travelling Agent he visited all parts of India and Ceylon In his very first visit to Hyderabad in October 1893 he took three lakhs of rupees for the Company in two months and-a-half, which is a good specimen of his energetic style of doing business. His field as representative and Chief Agent for the Company at Hyderabad embraces the whole of Nızam's Dominions He has secured 8 600 members for the London & Lancashire Company alone, some of whom are insured very heavily He is now also Chief Agent for the Norwich Union Life Insurance Company, for whom he is doing excellent business



Mi M M KAKA

Mi Kaka is the fourth son of the late Mr M S Kaka, of Bombay who was a prominent member of the Cotton Industry and one of the largest cotton merchants in Bombay Mr M M Kaka is a member of the Masonic Fraternity and Senior Warden Lodge 'Morland' Hyderabad He is keenly interested in the affairs of the Craft

Mr WILLIAM ERNSCHIFFE KEOGH Farmer and Contractor, Jubbulpore C P Born at Dublin Ireland in the year 1856 Educated partly at Dublin and partly at St Xavier's College Calcutta He joined the Royal Artillery as Gunner in the year 1876 He was connected with the army for twenty years and six months and saw active service in Afghanistan Burma Man.pur, the Chin-Hushai Papedition, relief of Chitril and earned the honour of mention in despatches



KESIDENCE OF MR. M. M. KM V

exem later by a list of Mofuss lacidents and many other additions. During the last five years the exculation of the book has doubled and the handsome volume of over 2000 pages for the current year one which my press may justify feel proud of both navigard to as pet up and the business lake errance ment of its content.

Mr. 110NG CHYL - Lychange Hall Moulmen Commission Yeart Merchant Distiller etc Mr Leone Chie was born at Lone Chee San Name District in the Province of Canton Chini in the veir the He came to Monlmein in 1858 for the purpose of joining in busines with his uncle who trided under the style and firm of Yek Ice After about four years in his much s business he took it over on his orn account. It that time the business vis a very smill one the entire stock being vilhed it Rupees 2 000 I rom these small beginnings Mr I cong Chee has by dint of industry and enterprise succeeded in building up the present large business of the firm. In the year 1870 he obtained a beense for wine and spirits, and has conducted business in this line ever since. He also trades in groceries Chinesi goods and also English goods turn ing over about a lakh und i hilf of tupecs In partnership with Mr. G T Limouzin he established the Phonix Distillers in 1884 Meet six years Mr. I imouzin ictired leaving Mr. Leong Chyc sole proprietor of the Distillers, which he has carried on ever since on his own account In the year 1892 Mr Leong Chye embarked in the country shipping trade, purch ising two steamers the P 5 'Fwov' and P 5 "Definee" plying between Moulmein and the southern ports, carrying cargo and passengers, also towing vessels in the Moulmein River He bought a large saw-mill in 1891, which he cirried on for some thirteen years, and in the following year he creeted a large rice-mill, which he muniged till he disposed of it to Messrs Dieckmann Bros & Co, I mited, in 1905. He is also interested in tin-mining in the Meigui District For many years he has held the tare and liquor licenses in the Tavoy, Mergui, and Thaton Dis-

tent out tild information except to an learn of to r In November 1995 he the control under the netinction I by the I old Govern ment to the path of early part from the Prices D. H. to the existion of the heavy Livor Mercia II too out Are hertly test these ones? but a fish to be see in hampein or it and dead defined a compatible and and many results to and oth futor to the t 1 . 11 . 11 and article in n 69.17 H line ly me j 11 +



Mr. LEONE CHYP

purchised by him in 1877. This is the oldest established Chinese merchant busines a Moulmen ind Ringoon Mr Long Chichis carried it on for over half the ntury He is nov assisted by his son Long McChoy Mr Long Chyc has cained honours by his charities receiving in the year 1899 the title of "Htone-Chi-Hum" from the Emperor of China. In 1900 he was included in the Birthday Honom's list of the Government of India and the Kriser-i-lfind medil was bestowed upon him In 1905 he was invited to attend the Dellu Durbar, being the only Chinese representative from Burmi if the function He received the Coron ition Medal on that occasion

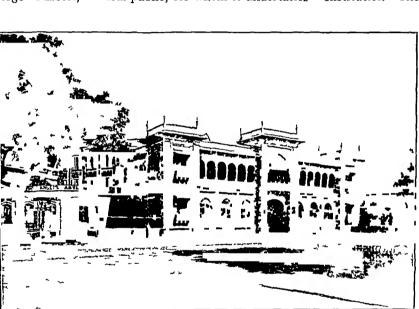
A THE CHES THOSE AP thirt of francists 11 11 Tomas Par 11 f 1 11 6 1 1 16 - 1 + Ffe 1 2 11 1 11 1 P 30 1 158 1 1 1 Lucion And V France W. χį Mr. 1 1102 , 1 1 1 1 1 21 ° to a set Still 1 1 Vic 1 t , ** * 5 15 11. tı js 11 lle tr. Carl the else him the ~, · () 1 · 1 I to be the first plantice of the blue of deal p حرن } ا hatter latters forms and product larger to a Chair and the streets state ments. Modinen attact over cast place the land expirt trule nied to be and is soul en tome for mystell socks. Re the establishment of hem on as the had quarter or Coverna to the impetus vasque i to this tove at ! commercial activity has for meat years bon transferred atself from Moulmen to Rangoon Mr. I m Soo Hear pronted by the change of conditions and his business at Rangoon became progressive. His son Mr I m Chin Tsong the subject of the present memor vis born at Rangoon in the year 1868. Mr. Lim Soo Hear alive to the drivibudy occusioned by his imperfect. Enoviedge of English which impeded the development of his business decided to give his son in English educition. He first placed him at the Rangoon College and subsequently put him under the circ of the Christim Brothers under the directorate of the Reverend Brother Vilens at St. Paul's Institution. The late Bishop Bigandet took a great interest in the young man. At the age of 16 Mr I im Chin Tsong left school and joined his fither is issistint in which expects he continued till his fither's death in 1888 when he carried on the business of the firm ilone. He extended the business

year 1816 the press had earned the sum of Rs 2,50,000 for the Asylum In 1820, the prosperity of the press was steadily increasing, and in that year profits amounted to Rs 28,690 In the succeeding year it was doing even better and the average net earnings from 1820 to 1824 amounted to Rs 36,860 In 1829, the profits were Rs 50,000, but this was the zenith of its prosperity in these days for, in 1832, the Government reversed its policy of protection and encouragement to the Asylum Press, withdrawing many of the privileges granted and diverting its printing to other establishments The Government also established the 'Fort St George Gazette,''

and compelled " Asylum the Gazette' or " Male Asylum Herald " as it had come to be called, to pay postage From this time on the Asylum and the press went through a very dark period bankers Their failed Disease carried off many of the inmates and wasted the energies of all concerned till 150 inmates only remained, where 450 had prebeen viously maintained 1N comfort The press business

fell off from
1846 to 1851, the net profits
amounted to but Rs 3,300 per annum In the year 1860 the Institution became practically bankrupt Its affairs were then taken in hand and a thorough reform instituted which resulted in the press again emerging from obscurity and assisting materially in the support of the orphans The press in fact from the first was the chief supporter of the Asylum, for from the commencement to the year 1828, with the exception of one considerable legacy from General Smith, the Isylum was mainly indebted for its funds to its own

exertions in the printing press Till the year 1828 the Government contributed nothing to the Asylum except a donation of Rs 500 per month, and even this was withdrawn for many years In later years the name of the Institution was changed to the "Lawrence Asylum," and the press became known as the 'Lawrence Asylum Press " After its revival as above noted the press steadily improved, and modern improvements in printing machinery were introduced as they arose It ceased to rely, as time went on, upon the Government contracts, but steadily did an increasing business with the general public, for whom it undertakes



LAWRENCE ASSILM Press, MADEAS

all kinds of printing work success which has attended its operations has given rise to the notion that the Lawrence Asylum Press is assisted either directly or indirectly by Government, but this is entirely erroneous. It is in fact quite independent, the work done on account of Government being accepted in the ordinary way and in common with the Government work placed at other presses appraised by the Superintendent of Government Printing The press is run on strictly commercial lines and the main income is derived from work for the public secured in competition with other presses. Its prosperity is thus entirely due to the evertions of the management

A notice of this Institution would be incomplete without a reference to the 'Madras Almanac,' as it was called when first issued about 108 years ago, but which is now known as the 'Asylum Press Almanac and Directory of Madras and South India' The earliest copy of the work to be seen in the press is that for 1805 Crown octavo in size, and numbering some 246 pages, this book was sold at 'two pagodas,' and was printed by the boys of the charity and published for the benefit of the Institution The Almanac' must

have received a fair measure of support from its inception, for we find that in 1830 it was still being brought out in much the same form al though it had increased in size by some 150 pages Shortly after this the book appears to have been enlarged, for the next volume we take up is Royal 8vo in size—the size in which it at present appears, with some 500 pages book in addition to its alteration in size has expanded its title.

and is now called "The Madras Almanac and Compendium of Intelligence" The volume for 1851 is in an excellent state of preservation and is exceedingly well printed. In 1862, the title of the book was again changed to 'The Asylum Press Almanac and Compendium of Intelligence' Space forbids a more detailed account of the progress of the book. In conclusion, it may be added that some five years ago it yas decided to bring the book more into the form of a Directory, and for this purpose a Streets Directory of Madras yas added, to be folloyed

Mahomedan Institutions as well Mr Pillay has been a Municipal Commissioner for Rangoon for twentyhie years, having been generally elected by the Hindu community, but was once nominated by the Government owing to his absence in Madras not allowing him to stand at election time. He has also been an Honorary Magistrate of the City of Rangoon with second class powers for nineteen years, and is now the Senior Honorary Magistrate on the list At the time of the Coronation of their Imperial Majesties Mr Pillay was granted a certificate of honour by the Burma Govern-



Rai Bahadui P M MADOORAS PILIAS

ment in recognition of his services as a Municipal Councillor and as a Member of the Dufferin Hospital Fund Committee He was made a "Rai Bahadur" by H E the Viceroy of India, Lord Elgin who conferred the distinction on him personally on the occasion of his visit to Burma in December 1898 On this occasion Mr Pillay was referred to as "a wealthy merchant and leading member of the Madrassi community at Rangoon, rendering considerable assistance to the Government as a Municipal Commissioner and Honorary Magistrate, and showing an enlightened munificence in establishing a

school for Madrassi boys in Rangoon and assisting the Dufferin Hospital with money and influence" He is also a member of the Masonic Ctaft and has been for a long time President of the "Hindu Mada Paribalana Saba" at Rangoon, sole trustee for certain Hindu charities, and is also a prominent member of various Institutions and Societies He has established at Rangoon i fine printing press called "The Mercantile Press" fitted with up-to-date plant, which has met with great success From this press he has issued publications popularising the masterpieces of Hindu poetry, the ancient Indian Epics of the Ramayana and Mahabarata, the Hindu Puranas etc, which have hitherto been sealed books to the poor and illiterate masses of Hindus at Rangoon He heads the list of Life Councillors on the General Committee of the Countess of Dufferin's Fund of the National Association for supplying female medical aid to the women of India, Burma Branch He was the only Hindu gentleman presented to Their Royal Highnesses the Prince and Princess of Wales on the occasion of their visit to Rangoon in 1906 Mr Pillay was one of the nineteen members of the Reception Committee presented on that occasion

Mr AGA MAHMOOD of Sheriff, Mahmood & Co, 23, Merchant Street, Rangoon Burma, is the son of M Hassen Sherazee, a Persian gentleman from Chiraz, who came to Rangoon in the year 1853 from India He settled in Burma, establishing himself as a Piecegoods Merchant and resided in that country till his death in 1879 Mr Aga Mahmood was born in the year 1854 and educated privately and at the Government High School, Rangoon At the age of 16, he left school and joined his father's business, but in 1879 when his father died he wound up his affairs and took service with Messrs L Hernandez & Co, Rangoon, as a bazar clerk. With this firm he remained till 1881 when Messrs Heinandez closed their business In the following year he joined Messrs Edmund Jones & Co as assistant salesman but after two years, left

their employ to join Messrs Biedemann Sheriff & Co, with whom he iem uned for the next ten years, when, the firm closing its doors owing to heavy losses in exchange Mr Aga Mahmood decided to open his own business as a Commission Agent Import and Export Merchant etc, which his pre-parations having been made, he accordingly did in the year 1894, under the style of Aga Mahmood This business he continued until 1896 when, having taken Mr William Sheriff into partnership, the firm's name was changed to Messrs Sheriff, Mahmood & Co After five years' association the partner-



Mr. Aca Mahmood

ship was severed by the death of Mr Sheriff, who in the year 1901 left Rangoon for England to recuperate his health but he unfortunately died at sea, his death being a severe loss to his surviving partner Mr Aga Mahmood settled accounts with Mrs Sheriff, the widow of his deceased partner purchasing the goodwill of the firm outright, and has since carried it on without making any alteration in its style Since 1901 he has enlarged the business by the addi tion of several departments Mr Agn Mahmood was one of the founders of the Rangoon Persian Association, of which he was elected President in 1900 In honour of

in all directions. In 1891, shortly ifter the annexation of Upper Burma, he became local agent for the Burma Oil Company. Ld. for the sale of the refined oil and other products of the Company. The operations were originally conned to Rangoon but Mr. Lim Chin Tsong soon afterwards established local depots in the principal towns of Burma. At that time American oil was very much in dem ind and the introduction of the local manufacture to the notice of consumer was a heavy task. Gradually the

prejudice against the use of the local article was overcome by the efforts of Mr Lim Chin Tsong and now it finds favour in almost every household throughout Burma The productions of the Company are very rapidly in-creasing Wr Lim Chin Tsong also paid attention the sea-borne trade in the local article and for this purpose purchased the S S "Clive" Finding this enterprise successful he extended it first by the charter of a steamer for trade between Penang and Rangoon, and subsequently by the purchase of a steamer for the passenger trade, by which emigration from the congested districts of Southern China to Burma was encouraged Steamers now ply regularly between Rangoon, Penang, Singapore Hong Kong, Swatow and Amoy effecting an exchange of commodities between the Chinese Empire and Burma The influx of emigrants to a

country like Burma, greatly in need of labour for its development cannot be overrated. Owing to this enterprise Burma is now placed within easy reach of Fokkein, whence labourers are imported in large and increasing numbers. Each trip of Mr. Lim Chin Tsong's steamers brings about 2,000 industrious labourers of all kinds from Swatow and Amoy. These find ready employment in agriculture and in other industrial pursuits. Mr. Lim Chin Tsong has also embarked in the rubber industry and has a plantation which gives promise of

a successful future He has also fostered various other industries the ginning of cotton, the extraction of pea-nut or as it is commonly called ground-nut oil, the exploration for gold copper, tin, and other natural products of the country are among his ventures. He has been prominent in charity and is a liberal donor in aid of public institutions, thus setting an example which has been followed by other Chinese merchants As a member of the Dufferin Fund he has been instrumental in inducing the Chinese



Mt LIM CHIN TSONG

communities to patronise the Maternity Hospital, and at a time when the funds of the institution were at a low ebb he, and his countrymen, subscribed liberally Mr Lim Chin Tsong is an Honorary Magistrate, and in this capacity has earned the esteem and confidence of the public and of the Government He is a member of the Educational Syndicate a Trustee and Administrator of the Victoria Memorial Gardens, and a member of the Rangoon Municipal Committee He takes a keen interest in sport and

has identified himself with all that concerns the welfare of the town of Rangoon

Rai P W M IDOOR I PILLAI Bahadur, Merchant, Rangoon Born on the 26th December 1858, in the City of Madras At the age of seven he commenced his Tamil studies under Raghava Chetti Iyer, and later had the advantage of tuition under the favour of Tamil Pandit Vir Ganpathi Iyer At the age of 13 he was drafted to the S P G High School at Vepery

He subsequently went to Rangoon, Burma, where he came under the tuition of the Christian Brothers at the St Paul's Institution now known as St Pauls High School Returning to Madras he completed his education at the Madras Christian College On the occasion of the Coronation Durbar Mr Pillas went to Delhi in the capacity of a private clerk to His Grace the Duke of Buckingham and Chandos After the Durbar he returned to Burma and entered the firm of Messrs Strang Steel & Co (now Steel Brothers & Co, Ld), as clerk 1 few years later he returned to Madras where he married and returning to Rangoon settled down to business on his own account as Ship Dubash Stevedore and Merchant Ur Pillay then decided to visit Europe to complete his commercial and social education and spent some time visiting the centres of the West, touring all over the United Kingdom, Germany, Denmark France

Norway, Italy and Egypt, and on his return to India he travelled all over the Indian continent Mr Pillay is a strong advocate of education as a panacea for the social evils of Hindu society, and in furtherance of this object he established a High School at Rangoon on his return to Burma which His Honour the Lieutenant-Governor of Burma honoured by He has been liberal opening in contributing towards Hindu Temples, building one himself, and has contributed to Christian and

esoteric knowledge which places them in a more favourable position, is regards then spir find welfare than the rest of the Moslems have While all other Mahom att uned edans appear to behave that their religion is such that there is nothing to be kept secret and have therefore had all their religious books printed nd published the Dawoodi Bohris have refrained from such publication of their religious books some of which, they hold, are not suit ible for general reading but should be confined to the use of the idepts among their community. For some sixty or seventy years previous to 1891, this Dawoodi Bohra community had suffered for the want of proper spiritual guidance and their observances had fallen to a matter of ritual only At this point Mr Malak's predecessor being already in communion with some spiritually far advanced superior beings who had made it their duty to look to the welfare of humanity at large, came forward is a religious teacher. He had in view the spiritual enlightenment and welfare of the community, so he devoted himself to the spierd of new ideas in connection with their religious beliefs

The late Mr Malak acquired no scholastic education and had no knowledge of any language but his native Guzerati But his natural talents enabled him to establish his reputation as a teacher and a solver of difficult questions in religion, philosophy, physical and mental science, and industrial matters, so that he speedily became distinguished as a leading man He brought enlightenment to his community, and his memory, as a reformer, is held in great veneration It was his plan to form a society for the purpose of the mutual improvement and advancement of the members These were only 1 handful at the beginning, but the results of their mutual helpfulness in secular as well as spiritual matters has secured their increase in many parts of India Bombay, Surat, Ahmedabad, Sidhpur Malwa, Burhanpur and other Guzerat centres inhabited by the Bohri community Most of the members are traders, carrying on business as shop-keepers and merchants, the Bohras being generally estimated as

good business men. They are all vell-to do foll in one vix or another. The astitution consists of several fundies some having more and some fever members. The members of the institution now videls known is Athi-c-Milil ire ill students developing themselves, and the institution resembles coollege It has edistinctly industrial is well is religious side. Women are adm tted on equal terms v themen and allowed all advantages of the turtion They read and vrite essivs and are instructed in needlework and cooking Among ther subjects are silk and wool In tting and gold thread embroiders



Khin Bihidur H. M. Mai ai

be intiful and interesting specimens of the r work were exhib ted in the Ladius' section of the Central Provinces and Berar Exhibition of 1908 They are taught it the Institution to become self-supporting and to earn their own living The men ire taught all sorts of industrial work and handier ifts, agriculture, gardenng, curpentry, trading etc. It is expected of them that they shall be self-helpful and useful members of Society Aschool for boys and guls is attached to the Institution, and there is also established a Debating Society in which both men and women take part A charitable dispensary for the inniates of the Mehdi Bag as well as for the outside

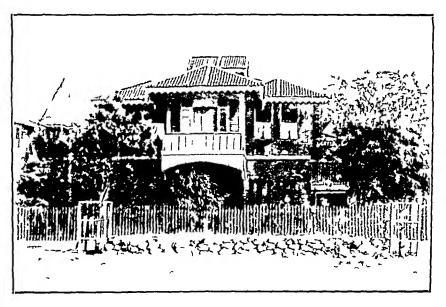
public is conducted in connection with the Institution by Dr. I wase-Haq Urf Abbasah Alibhar i M & s, egreduate of the Bombay Univer-The founder of the Institution with great visdom, combined the uplifting influence of religion with utilitizing doctrines, which render those truned at its schools excellent members of the community thoroughly practical in all the ispects of life. The President Founder died in the year 1899. He had long before pointed out Mr. H. M. Milak is his fit and proper suc-cessor, and shortly before his death he nominated Mr. Malak as the future President of the Institution Mr. Malak during his incumbency of this post, has enlarged the scope of the Society and has opened branches and other centres conducted on the same praciples is the parent Institution. Since the very 1803 the Society has had its place of residence it the Mehdi Big All members are maintained by the Institution and every day they gather at the Maspid for religious instruction which is imparted by the present Mr Malak in the sime manner is by his predecessor or illy There ire sermons and lectures but no books and discussions and questions are alloyed to enable the members to satisfy themselves Although the m un doctrines are the tenets of Islam, a general idea of all religions is imparted in the belief of a Universal Religion in the near future. It is understood that Mr. Malak is the natural successor of the founder of the community is not an honour that was sought by him. It was the founder who sought him out to cirry the work as one possessed of the gifts which give him the necessary insight to which ill mitters stand reveiled This is the belief of the community who do not feel that they have lost their president founder but sec him in his successor. It is for this icison that he was singled out for nomination and that the members have a mystic belief in him and his mission The Institution has many sympathisers outside of the ranks of its members among the Dawoodi Bohra community, and it is the hope of the president and promoters to bring all within its influence and they believe that the upkeep of the Institution makes for the future

the occasion several high Government officials, including Frederick Fryer, Luttenant-Governor of Burma, were invited and consented to be present at the opening ceremony In 1902 Mr Aga Wahmood joined the Rangoon Chamber of Commerce, now known as the Burma Chamber of Commerce, of which he is still a member. In the following year he received the great honour of appointment as Vice-Consul for Persia in Ringoon by His Imperial Majesty the Shah On the occasion of the reading of the "firman" announcing his appointment, Mr Aga Mahmood had the honour of

the presence on invitation of Su Herbert Thirkell White. then Chief Judge of the Chief Court of Lower Burma. Lieute-Non. nant-Governor of Burma, and also several high Government officials and all the Judges and Consuls of other nations In appreciation of the honour conferred upon him he made donations of silver "Ah-lems" to all Shiih the

Mosques in Rangoon, to the value of Rs 7,000 In the same year he was appointed by Government Commissioner for a Municipal the town of Rangoon In 1904 Mr Aga Mahmood proceeded on pilgrimage, shipping on the Bibby Line to Egypt where he stayed at Cairo for six weeks, whence he went to Jeddah, where he met several Persian Ministers He proceeded to Mecca where he stayed a month, during which time he had several interviews with the Shareeff of the City and found him kind-hearted and hospitable, and very favourable to Persians From Jeddah he made a tour of the holy cities visiting the shrines of Arabia

at Cazamine, Keibala, Najuf and Samerah His religious duties being thus performed, Mr \ga \landalahmood returned to Rangoon via Bombay, airiving there in 1905 During his absence his business affairs were entrusted to Mr Marshall James For who conducted them ably and also acted as Vice-Consul for Persia In the year of his return he was re-appointed by Government to sit on the Municipal Board as Commissioner, and in the following year he was appointed an Honorary Magistrate Mr Aga Mahmood has been thrice married. In the year 1881 he espoused Sakeena Bibi daughter of Hajee Mirza Mi



" EAST HOUSE," RANCOON, RESIDENCE OF Mr. ACA MARMOOD

Akbar Korasamy, a well known merchant of Rangoon, who died without issue in 1889. In 1890 he married the younger sister of M Backer Sherazee and had issue, a son, Hassen, in 1891, and a daughter, Hosainy Mahmood, in 1897. He lost his second wife in 1903. On his return from pilgrimage he married the grand-daughter of Aga Ahmed Ispahany, Khan Bahadur, of whom his son, Abbas Mahmood, was born in 1907. Mr. Aga Mahmood became a Freemason in 1886 and joined Lodge "Star of Burma 614." His residence at 43, Dalhousie Street, Rangoon, is known as the "East House"

Khan Bahadui H M MALAK (Hunb-e-Moulana Malak) BUDRUD DIN GOOLAM HUSEIN, President Mchdi Bag Institution, Nagpur, Central Provinces Son of an Indian Doctor, Miakhan Hakeem, who piactised in Bombay Fort, and was well known and popular among his countrymen and the Parsee community Born at Bombay in the year 1855 and educated at the Elphinstone High School in his native town On completing his education, he joined the service of Government in the Treasury Department and was posted to Aden He served at this centre for two years and-a-half till the year 1880, when

he resigned his appointment and returned to Bombay Here he entered mercantile He carlife ried on business in Bombay for some ten years from 1880 to In the 1891 latter year he came in contact with his predecessor, the late Mr Malak, but it was not till 1892 that the late and the present Mr Malak, in company with a few others, transferred themselves to Nag-

pur, started the Institution, and established a business as merchants, which he has carried on ever since concurrently with his other affairs This institution was founded by the predecessor of Mr Malak, the son of a Bohra merchant, by name Jeewabhai Heebatullabhai, who was a dealer in paints, oils and varnishes at Bombay This particular sect of the Bohra community, to which Mr Malak also belongs, are known as the Dawoodi Bohras They believe in Islam or the Mahomedan faith, and belong to the Shiah sect of that religious body But they differ in many points from other Mahomedans, and believe that they have reached

Messrs MARTIN & Co, Engineers and Contractors, 16, Phayre Street Rangoon, Burma lished in the year 1906 **Estab** The firm despite its youth is in a very large way of business in Burma, and carries on very extensive operations, especially in the building line. They are it present engaged in constructing for the British India offices Steam Navigation Company at Rangoon, and premises for the Government Engineering School at Messrs Martin & Co have just completed fine buildings for the Military Police Training School at Mandalay and are engaged in constructing premises for Messrs



Mr 1 C MARTIN

Goon mal, Jev ellers at Rangoon, S Bilthazar and Messrs Whiteaway I ridling & Co in the same city They have also the Jewish Synagogue it Ringoon under construction The firm quarry their own stone having quarries it Mopulin and have ilso established the manufacture of bricks and cement tiles in a large was at Thamaing, whence they supply not only their own consider able requirements in effecting their contracts but also the dem inds of the general public They have other brick-fields at Kimiyut to supple ment the supply of bricks from Thamaing They hold important contracts from the Government of Burma in the Public Works Department, in the matter of the construction of roads and minor buildings as from time to time required Messrs Martin have introduced the use of reinforced concrete work for floors and buildings into Burma, and are the only firm in the province that use that style of construction They are large users of iron and steel work in connection with their building operations, all of which they import specially from Europe They are also importers of coal from Bengal, and stone from Bombay, all for use in their operations They keep a staff of architects specially for the design ing of buildings and constructions of all descriptions, and are thoroughly equipped in every respect to carry out the largest contracts occupying a leading position as Constructional Engineers, Messrs Martin make a speciality of artesian well boring, in which they have been very successful in Upper Burma The firm are local agents for Crossley's Oil Engines They have branches at Mandalay and Sitting The partners are Mr A C Martin and Mr S P Dass

Arrakiel Carapiet Maitin, senior partner of the firm of Maitin & Co, Engineers and Contractors, Rangoon was born in Persia in the year 1864 As a child he was sent to Calcutta for his education which he received'at the Armenian College and St A: vier's College in that city, being afterwards placed at the Seeb pore Engineering College to obtain his technical training. He passed out of the Engineering College in the year 1886, and joined Government service in the Public Works Department, being posted to Buima In this Department he served with credit, placed in charge of many divisions in succession. He was entrusted with the sole charge of the erection of the head works of the Mandalay Canal this being the largest canal in Burma Mr Martin resigned from the Public Works Department after 14 years' service in the year 1900, and in that year started the firm of Nahapiet and Martin, Engineers and Contractors of Rangoon . While a partner in this firm he had sole charge of the erection of the Mandalay Bazaar, the largest market in the East He also constructed all the buildings for the Electric Tramway at Mandalay for Messrs Dick Kerr & Co the English Contractors Hc dispartnership with Nahapiet in 1906, having decided to start another business in the same line on his own account under the style and title of Martin & Co as above He has brought this business to considerable success in the short space of time subsequent to the change Mr A C Martin was the discoverer of the silver and lead mines of Burma, and started the operations for the Burma Mines & Ry Smelting Company of which he was one of the original Directors, until the business was taken over by Messrs Bewick



Mr S P Dass

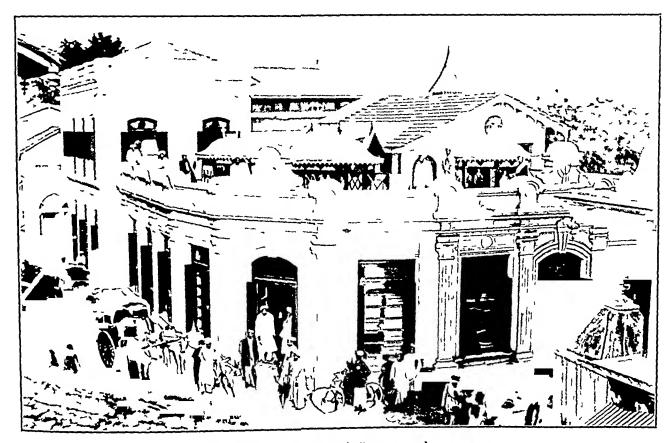
Morring & Co of London property promises to be one of the largest lead ore smelting works in the East, and is now turning out about 2,000 tons of lead per month He is a Director of the Victoria Lands Company, and Golden Valley Estate Company, and is also interested in tin mines in the Mahwun and Tavoy Districts Healso holds a directorship in the Burma Mines Development Agency, which concern possesses concessions of good serms of coal Besides these large interests Mr Martin is a private landowner, and possesses several building sites and buildings at Rangoon

Mr SIV I PADA DASS partner in the firm of Messrs Martin & Co.,

velfare of the vhole community both inside and outside the Instituton. Mr. Malak has carned the respect of all and is recognised as on of the leading merchants of Nagpur and the Central Provinces. He is a landlord and malguzar of Umrer and the rest-house for vell-to do trivellers and the labrary in the town over the resistence to the liberality of Mr Malal Hetakes in interest in all public movements and is a member of the Municipal Committee of Nigpur He served on several Committees in connection v the the Central Provinces and Berg Tableton in which he exh bited some beautiful interesting Ind in products in a tisteful ed fice bult it i great cost. He is also a life member of the Mahomedin I ducit on il Conference indici member of the Moslem League representing the Central Provinces and Berar He's President by election of the Anjuman e Ham Islam Nagpur and is recognised by Government as representing the Mahomed in community. His name appears in the Provincial and Executive Committees of the Indian Chartable Relef Fund of 1908. In short there since any public movement with which his name is not associated. He doo holds a seat in the Chart Commissioner's Durbar

Mosers MANSHILLD & SONS I mited 2 New China Bazair Cil cutta Gas Electrical and Hydraulic Ung neers. The principal business of Mansheld & Sons Itd hes n the supply of the Mansheld Patent OT Gas Apparatus for producing is from int I nd of of or grease. The gas so produced - utled for lighting heating and driving his entires in fact for any description of work to which ord nary gas supplicable. The Mansfield Patent gas plant slargely in use for light heat and power all over India and burma. It is extensively used for lighting Rul-

way Stations Hospitals Palaces and Mansions of the nobility and gentry in India and Burma and for similar purposes in all other countries. In Egypt for instance Messrs Mansheld & Sons Ltd have just completed contracts for lighting four tovins. Dimanhour Kiffxi-/vit /iftch ind Favoum These contracts vere carried through on account of the Egyp trin Government The Company have also led down their plant for lighting several towns in England up to 5 000 lights. The Company are also interested in steel pipes syphons and culverts of large d mensions for irrigation purposes which they supply and erect in position. Besides their specialities the Company undertake general engineering in which they do a large business. Mr. Alfred Mansfield s the Managing Director of the Company and Messrs Frank Ohver and Gilbert Mansfield are the other Ducctors



KHAN BAHADUR H. M. MALAR'S PRIMISIS IN NACITI

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Messis McDOWELL & CO Lat Mrs Tischmer Tire where early elections nc s mo sm coterns or -The - 700 -- 0 M Diricula Colore in occirc the of mer I chaic even o totro ton to - 1-1 - - 5123 1 111 12the a commence the action ~ 6 5-6~5~6~ 1210 ~ 11 5-616z c topicco - - inci tec or א און מפט ב זוכן הימי ארן . el stence in titti had ad dealings a the ipe of threes. It is not till the year 1852 that the there sear nature of Messes McDon of a Co the late Mr. I. M. Hone Lou as attent or principle to the range of the care outer in Lide. At that the the business o ceroot males morne tos correction attraction of the rough the on the though the tion of the rese considerable in I are throuttle selection of the ber ers of it's country. This has all been changed in the electrics of such time as Messre McDo ell d Co and Irdan eggs are to race rammer tach coaded voin the great im movement effected n the methods of curing the notgenius leaf has ensured them a velcore rell courses. It was title some 20 years ago mai Mesers McDovell & Co at he instance of the late Mr. Hooper enered the organ manufacturing moustry a which they have since become so famous. The firm of first strited overstous at Transporoli the original hone of the Ind a logar

Finding the demand for good quality organs such as vere durined out at the nimestactory very encour aging. Mr Hoopendedded to extend the enterprise and take up the manufacture on a larger scale and in a manner more consistent with modern methods. It was accordingly arrang-

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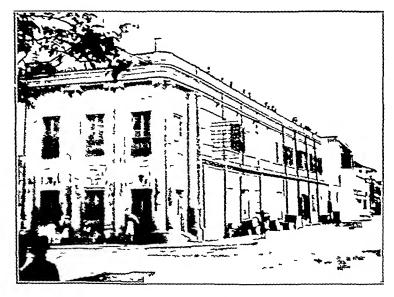


L . W. 1 M HOME

to core was roused adjoining to the premises. The result of this move was to give a great about to his object of eight and this manufactured by the arm, and this

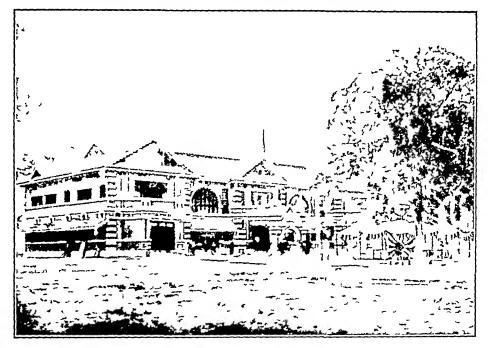
is due to the freit eare high his its been exercised by Messes. McDoy II in this election of only the first state of the perfecting of the outward ship and look of the egas manufactured the rapids being find of time superior the perfect of the perfect of the egas manufactured the rapids being find of time superior the purpose to Indian law to be the distributed to perfect the distributed to perfect of the distributed to perfect the first law and even with the limited apportunities produced against the beams of the first law and even with the limited apportunities produced

egar heh beams a primi tream ex then alex. In repor however the arm slot ed fur ner enterpre and norder to kep pace value the contraction of the con us rs of tobacco having become more cos, opolion, they infromed the bludig or a period tobacco with the Indianal at a measure which has ben attended th remarkable success due to the expert knowledge the have broughe o bear moon the process of blending the various cobaccos employed. The result has fully justifier expectations, and by thered lland kno ledge as typinal n the reights. Messrs McDovell & to base but up a reputation for excellence in cobacco manufactureupexcelled a Southern Ind i In order to keep their factors up to date the arm have spared no



Weser McDonfell & Co., MADRAS

MESSRS MARTIN & CO, RANGOON



GOVERNMENT ENGINEERING SCHOOL, INSERN



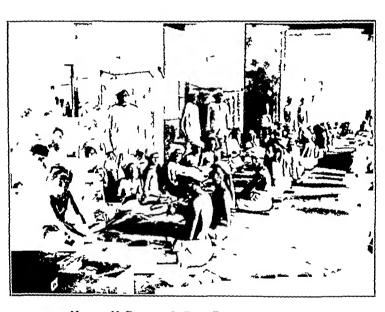
Offices of Messis Martin & Co., Rancoon

expense in bringing out from the Continent and England European experts who have proved of great assistance in keeping the style and thush of the article up to modern it gunements They have also on two occasions sent rollers from Madias to I ondon to manufacture cigais As a consequence of this liberal policy the reputation of Indian cigais has spread beyond the borders of India and Messry McDowell's productions are known and appreciated all over the world Their manufactures formed a very prominent exhibit it the Empire of India Exhibition and they were awarded two gold meduls in 1805 and 1896 for their high standard

of excellence and umform quality They were also exhibited the nf. Adelaide Jubilee In ternational Exhibi tion of 1887 and the Girham's Town Exhibition of 1888-89 where they were awarded orders of merit The South Mucan war with the Boers of 1000-01 given greatimpetus to the business Owing to the enoimous demand for Indian cigais for the British troops dui ing this wi firm's large factory ın Madras was found unequal to the task of turning out the cigars required and an rdditional factory

was established at Trichinopoly where no fewer than 1,000 hands were employed in making, packing and boxing the firm's famous make of Bahadur cigars It is computed that during the continuance of the War in South Africa 16 million cigars, which placed end to end would measure 1,000 miles in length, were shipped to South Africa and smoked by the British troops Messrs McDowell have introduced great variety into the form of Indian cigars, and now manufacture these in over 50 different shapes and sizes to suit all tastes and pockets Then large and airy factory at

Madras will accommodate 600 hands with a daily outturn of from 60 000 to 100 000 cigais. In addition to their eight in unificturing business Messrs McDowell & Co started some five years ago eightettemaking importing for this purpose the latest muchinery from I urope capable of turning out up to 500 000 eightetes per day. In this line also the firm has kept thoroughly up-to date, for recognising ig in the importance of expert knowledge they brought out from England's skilled tobacco blender with over 30 years experience The machinery laid down can turn out the choicest blends of Tgyptim and Turkish tobacco as well as



Messis McDonfil & Co & Factori Madris

the cheapest Virginia cigarettes Messis McDowell aim at suiting all classes of purchasers though owing to the nature of the demand the bulk of the business is in the latter kind Over 2,000,000 cigarettes are made and disposed of per month and yet this branch of the industry is still in its infancy, for India offers a huge field for the ugarette smoking habit Outside of the tobacco line Messrs McDowell & Co carry on a large and important business as wholesale wine merchants, in which they are the oldest established firm in Southern They also deal largely in every class on imports and exports and undertake Insurance in all its branches

Messes G Mck ENTIL & Company, Motor Engineers Cycle and Athletic Outfitters No 40 Soolay Pigoda Road, Ringoon Sole proprietor Mr George Mckenzie — Letablished in the year 1902. The firm are specialists in motor cars, bicycles billiard tables and all kinds of athletic gear. They deal principally in motor cars and were the pioneer of the motor business in Burma, and maintain their premier position by up-to-date enterprise. In this line they are agents for the famous makes of "Royer" and "Arrol-

Johnstone Motor Cirs' They have made their name chiefly with the first mentioned make of

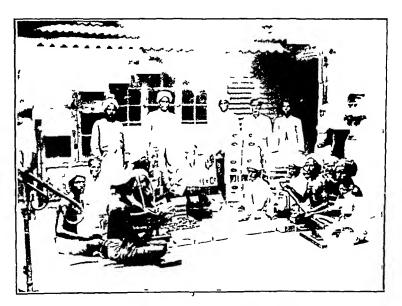
CIT Their Shp Royer" has established itself as the most popular car in Ringoon and the local grievance is that the firm cannot supply this car fast chough to cope with the demand produced by its excellent performances When Mr George Mckenzie first started the business it was but masmill way for the purpose of dealing in cycles and uthletic gear only, of which a speciality was made of Rover "Premier' and "Raglan

cycles and Bussey and Co s celebrated athletic requisites a glance round the present extensive premises where the firm now carries in its business is sufficient to disclose the great enterprise and sound practical knowledge that has succeeded in building up so large a business from small beginnings in the short space of say years, in a small though prosperous city. The large new garage and workshops for repairs to motor cars and cycles recently erected by the firm in 32nd Street Rangoon at the back of their premises in Soolay Pagoda Road, are among

MESSRS McDOWELL & CO, LTD MADRAS



Messes McDowill & Co & Lactola, Madras



Messis McDowfii & Co's Factors, Madris

to residents of Rangoon, having brought the hill station within easy reach of the port Among the latest addition to Messrs McKenzie's business is that of the manufacture of billiard tables, for which they are adding a branch establishment The tables are manufactured of teakwood grown in Burma For the superintendence of this department the firm are engaging a practical European billiard table fitter and within a short period they will be turning out some of the best and most up to date tables and requisites Besides the above lines, Messrs McKenzie stock a very large and complete supply of all descriptions of athletic gear, and a practical European is in charge of this department All the different departments of the firm's business are under the charge of skilled Europeans Mr Geoige McKenzie sole proprietor, Messis G McKenzie & Co, is a native of Glasgow in which city he was born in the year 1874 He was educated at Glasgow and in the same town served his apprenticeship to the engineering trade In 1897 he came to Burma joining one of the largest local mercantile firms on the usual 3 years agreement At the conclusion of this period he set up in business for himself and started the firm of G McKenzie & Co It is greatly to the credit of Mr McKenzie that should have been able at

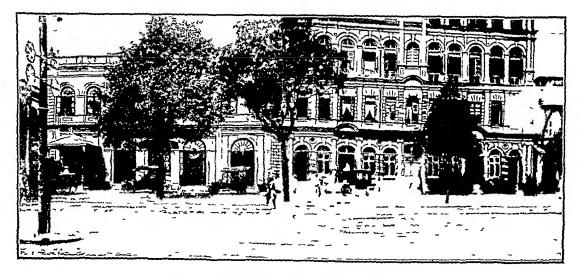
such an early age and with only 3 years' experience in the country to establish and carry to success such a substantial business. Mr McKenzie has gained for himself in the motor world a reputation as the "Edge" of Burma. His work in connection with the new and very prosperous motor car service to the Ruby mines has brought him into considerable prominence.

LOUIS MELOSCH, Pro prietor of Rice Mill and Brick and Tile Works, Moulmein, Burma is a native of the German Empire, where he was born in the town of Altona, in Holstein, in the year 1849 He received his education in Geimany After visiting engineering schools he elected to volunteer for his one year's service in the German army, and joined his regiment in 1869 On the outbreak of the Franco-German War of 1870 he was called out for active service and he served with distinction throughout the whole of the subsequent campaign, from the out-break of hostilities to the declaration of peace. He took part in six pitched battles and obtained the war medal with six clasps That coveted distinction, the Iron Cross, which is never granted except for personal gallantry in the field, was also bestowed upon him In 1871, after the close of the war, he came to Burma and joined the firm of Melosch, Hollamann & Co, who were the original pioneer Rice Millers in Burma, established in the year 1859. In 1877 he took over the business and mill and conducted it under his own name, and has carried it on ever since as proprietor. In 1891 he added a Brick and Tile



Mr L MELOSCH

Works and proceeded to manufacture these commodities of clay for superior to that obtainable in other parts of Burma. The bricks and tiles are burned in a continuous kiln and modern up-to-date



Messes G McKenzie & Co's Premises, Rangoon

the best in the East The firm do not confine themselves to repairs to their own specialities only, but do a large business in repairs and refittings for all makes of motor cars



Mr GEO MCKENZIE

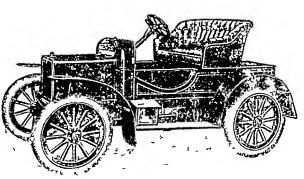
and cycles, in which they have gained a good and well-deserved reputation. They also do a large hiring business in motor cars during the globe-trotting season in the cold weather. Messrs McKenzie

& Co employ two trained European motor mechanics, in addition to Mr G McKenzie who is a practical Engineer and himself takes an active part in the business They also have in their employ a practical European motor tyre repairer, and among the most recent additions to their extensive machin ery is an up-to-date re-treading

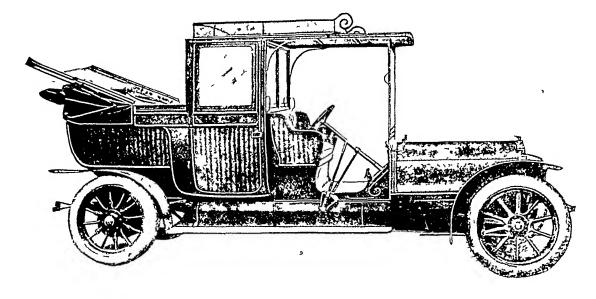
plant for re-treading and repairing tyres Among their latest clients for motor cars are the Burma Ruby Mines district, where Messrs Mc Kenzie & Co have supplied a service of half a dozen Arrol-Johnstone cars of high power, to run over sixty miles of the hilliest district in Burma McKenzie Mr

was specially selected by the Government of Burma to inspect the road and report as to whether it was suitable for the proposed motor car service, as hitherto it had taken days to reach Mogok and the Ruby Mines After thoroughly inspecting the locality Mr McKenzie was able to report favourably, and advised the Lieutenant-Governor of the Province that the

road was quite negotiable for motor cars, provided the surface was made good. The Government put the work of repairing the road in hand at once, and the sixty miles of road between Thabeitkyin and Mogok is now the finest road existing in any part of Burma. The service of motor cars now inaugurated has proved a positive boon



to the Ruby district Messis Mc Kenzie & Co gained great reputation for the skill and enterprise with which they put through their portion of the worl, and are to be highly congratulated on the excellent results obtained. The firm also supplied motor cars for the service between Toungoo and Thandaung, the new hill station for Burma which has been a great benefit



24 30 H P SPEEDWELL MOTOK CAR

the makers on the points most essential in the construction of pianos for a hot damp climate

The Rangoon business is carried on in modern and up to date premises situated in the most central part of the city, consisting of a two storeyed building with spacious show rooms, containing a magnificent display of grand and pianos by well-known upright makers such as Broadwood, Brinsmead, Bluthner, Collard, Cramer, Hopkinson Gruss, Lipp, Schiedmayer and the latest designs in Pianolas and Piano players, etc I gallery running at the exctc treme end of the buildings has been specially built for the display of organs and harmoniums, while the first floor has been devoted to in attractive stock of music and musical instruments

The firm possesses also every tacility for the building of pipe organs, pianos, and other musical instruments, and employ a staff of qualified tuners and builders from the leading factories of Europe, to enable them to meet in every respect the musical requirements of the country

Messrs MISQUITH & Co Ld Madras, Piano Organ and Musical Suppliers, Importers and Manufacturers In the early forties of the last century there settled on the wooded slopes of the Nilgiris a Portuguese gentleman who was destined to leave an abiding mark on the social history of the southern Presidency This was Signor J C Misquita who had previously been connected with the Roman Cathblic priesthood He was a most accomplished musician. equally proficient with organ, violin or guitar Taking up his residence at Ootacamund, he established him self in business there as organist and a teacher of music, and also set up a small emporium for the sale of musical instruments This was the foundation of the present hrm of Misquith & Co, Ld, a firm that has built up a reputation second to none in India founder of the firm in due course married an English lady at Ootacamund, and she bore him eleven children—six sons and five daughters Of these one died in infancy, but the remaining ten

flourished, and were all professionally connected with music In 1878 the Madras firm of Misquith & Co was founded as part of the Ooty business, but previous to that date the family name had been anglicised, and changed from Visquita to Misquith The Wadras business rose rapidly into prominence, and soon became the headquarters of the firm, with branches it Bangalore, Rangoon, and the Straits Settlements In due course, the founder of the firm having died, the conduct of the business devolved on three sons, and of these, Wi Walter Francis Misquith assumed charge of the head-office



Mi W I Misquith

and the branches at Bangalore and Ootrcamund, while the late Mr Roland Misquith managed the Singapore branch of the business, and Mr Oscar Misquith looked after the interests of the Rangoon depôt. In 1892 the partnership between the three brothers under went a change, and although the business in India and Burma is still continued at all the branches formerly controlled jointly by the firm, they are now conducted in separate interests. The main firm of Messrs Misquith & Co., Madras, was converted into a Limited Company in May 1907, with Mi Walter F. Misquith as Managing Director.

Misquith Hall, the main place of business of the firm in Madras, is centrally located in close proximity to Government House and at the junction of the principal roads The firm own extensive shops and warchouses, and have Organ Works on a large scale, where only the very finest of material is used They build largely for churches, and are the leading dealers in this class of instrument in India Organs have to be specially built ind protected, to enable them to withstand the climate of this country, and to a solution of these difficulties the firm have applied themselves with such good results that their instruments have invariably given every satisfaction to then purchasers many of whom including amateur and professional musicians of note have expressed their thorough appreciation of the instruments supplied and the repairs to old instruments carried out by the firm Some of the organs renovated by Messrs Misquith & Co, have seen upwards of fifty years' service, and are still in use in various places of worship One example of quick and efficient work which stands to the credit of the firm is specially worthy of note Between Monday and Friday of one week the bellows of the St George's Cathedral Organ (a large 3 manual and pedal) were removed, renovated and replaced The bellows were in a shocking condition, and their removal involved taking out the whole of the pedal pipes on the C sharp side of the organ, supporting the massive upper work and unfixing a large number of trackers and other portions of the action Work was com-menced on Monday, and by the following Friday the bellows were back in their place, absolutely perfect, and the whole of the portion of the organ that had been disturbed was once more in thorough order The instrument thus successfully operated upon was a most valuable specimen of Messrs Hill & Sons' older instru ments, dating back to 1857

Much of the success that the firm have achieved in another direction is due to their policy of importing none but instruments specially suited to the various climates of India, Buima and the Straits Settlements. This characteristic of the firm has been recognized by a

machinery is used throughout at the works for their manufacture. Mr Melosch has been a member of the Moulmein Volunteer Artillery since its enrolment, and for the greater part of the time was Commandant of the Corps, holding His Majesty's Commission as Major. He also commanded during his Captainev About three years ago he resigned the post of Officer Commanding and joined the reserve. He holds the V. D. decoration. In April 1907 hewas re appointed.

a member of the Municipal Council of Moulmein

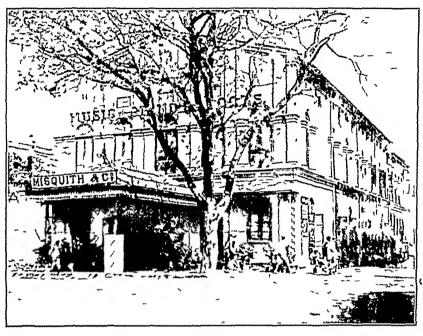
Messrs MISQUITII & (o, Merchant Street Rangoon The name of Misquith has been connected with the musical world of the Madras Presidency for the past sixty years and for close on a quarter of a century it has been i household word in Burma where Mr Oscar Misquith is regarded as an authority on all musical matters, his musical talent being in as great requisition as his own musical instruments at concerts. church choirs, and the examination of musical students throughout the province

The original business of J C Misquith & Sons vas established at Ootacamund (one of the loveliest hill stations of the

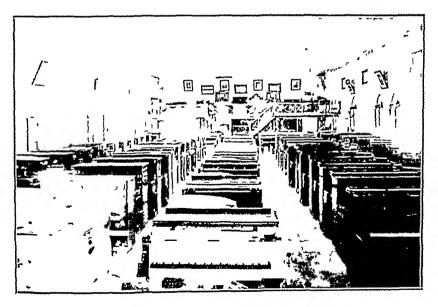
East) in 1865, when the difficulties of transport, until the advent of railways, entailed a journey by country cart of six to eight weeks for a piano from the seaport of Madras to Ootacamund The instruments imported in those days were the Squares by Schiedmayer & Sons, and later

on the Upright and Grand by Rich Lipp, some of which are still in use at the hill station

In 1875 the two elder brothers opened a business in Madras which was considerably enlarged, tiner premises being purchased in 1879 under the Managership of the present proprietor, Mr



Messrs Misquith & Co, Ringoon



Messrs Misquith & Co's Show Room, Rangoon

W F Misquith With the spirit of enterprise fairly aroused, Burma, which offered new ground, was the next field of the firm's operations, a branch being opened in Rangoon by Mr R V Misquith in 1889, and Mr Oscar Misquith placed in charge

On the death of Mr R V Misquith the business was taken over entirely as a distinct concern by Mr Oscai Misquith, and another branch opened at Mandalay soon after

The special feature of the Burma business is the great importance given to the construction of pianos suitable for this the most trying climate of any in the world. To this end Mr. Oscar Misquith has found it very necessary to personally visit the different factories in England and the Continent to instruct

of the firm vith Burma was curred on by the present Agent Mr. H. Isurisawa in his own name. His enterprise, and ability built up a rade that rendered it lucrative for



Babu J K Mooretjii

Mitsin & Co to establish a Branch House at Rangoon, retaining his

services is Arent. The Mit in Bussiu Ku ha represent many of the best Lurope in and American firms of manufacturer, and under tale the Veney of the best known. Insurance Companies—The reduced trade with Burna is increasing to the mutual benefit of the tocountries. Mr. H. Kurisawa has been a resident of Kun oon for many year.

Babii J. K. MOOKERHEL Proprietor Joseumpore Coul Com-pans - Ilus gentleman i a native of beneal and by extern hunches Brahmin He is virindson of the illustrious Benealt Poet Roma Lal Bunch He va born in B n at in the year 1871 and educated at the Ripon Collège Calcutta. At the use of __ he entered the coal trule which it that time (1597) showing sums of the rrest expansion which it has since real sed in Bengal Babu J K Moolerper undertool mining operations in which he has had considerable success and has some conducted profitable coal mimes in the country He required proprietorial rights in the Therriah mine at present owned by the above Company

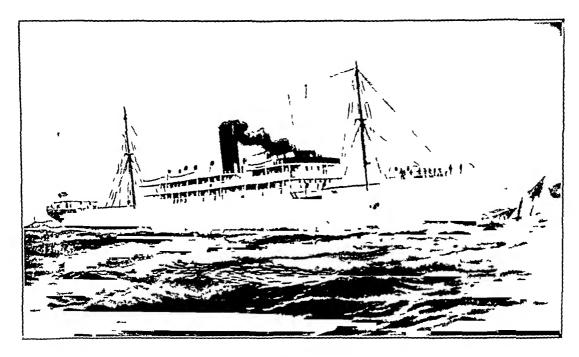
A hickory is the politic revenue on

Palm RAJRISTN MOOKER JII Ship book Steedore



Ribes C. Montepi

and Government Contra for The firm storted by Bobn Kaplassen



INCHOR LINES S CASTILLY

discerning musical public, and testi monials from hundreds of purchasers testify to the durability, beauty of tone, and general excellence of the pianos supplied The firm also execute all kinds of repairs and in this department their work as is shown by numerous testimonials from well-known and prominent people, is thorough and durable Messrs Misquith & Co represent the best firms of makers, English, French German and American, and they import on a large scale every kind of musical accessory

Mr Walter Francis Misquith, the Managing Director of Messrs Misquith & Co, Ld (more generally known as Wallace Visquith), is one of the leading musicians in Madras He was born at Ootacamund in 1856, and has been connected with the musicial profession since he was five years of age He is an accomplished organist, and has acted as organist of several churches includ ing St George's Cathedral, Madras He was the organist and choir master of St Stephen's Church Ootacamund, for several years a position which has been occupied by members of the family, without break, since 1842 One of his sons, Franz Cyrilio, is a pupil at St Paul's, London, and is also receiving a special training to enable him to hereafter take his share in the business Mr Walter Visquith was the first to introduce the nov well-known Bechstein piano into this country. Like all the other members of the family, his devotion to music is intense,—in this respect he is the most notable of a notable family-and the concerts which he frequently conducts at Misquith Hall and elsewhere are attended by the most critical and exclusive of the musical and social public

Messrs MITCHELL, CHRISTENSEN & Co, Steamship Agents and Stevedores, Merchants and Contractors, Moulmein This is an old established business, having been originally started in the year 1870, though at first only in a small way, by Mitchell & Sons After twenty years of successful business it was decided to alter the style to \ G Mitchell & Co, which was accordingly carried out in the year 1890 In 1904 Mr P T Christensen was admitted to a partnership

in the him and at this time the style was again altered and operations have since been carried on under its present title of Mitchell Christensen & Co In the follow ing year, 1905 Mr Christensen took over the firm and since that time has personally carried on and managed its affairs They are the leading stevedoring firm of Moulmein and also ict as Steamship Agents, and some considerable business has been done by them as Salvage Contractors Messrs Mitchell, Christensen, under the present able management, have been extending the scope of their business and have laid the nucleus of a trading fleet by the pur-



Mr P T CHRISTINSIN

chase of a seagoing vessel for the Indian coasting trade There is likelihood of further steamers being added in the near future present considerable increase in the business of the firm has been due to the energy and abilities of Mr P T Christensen, who has made it the leading firm of its kind in the district Mr Christensen is a native of Denmark He came to Burma in the year 1898 and joined his present firm, soon rising to the position of partner He now controls the whole business of Messis Mitchell, Christensen & Co

The MITSUI BUSSAN KAISHA, Ringoon Age it, Mr H Kurasawa This business house is

the branch agency in Burma for the famous Mitsui House of Tokyo, Japan, which carries on many enterprises including banking, trading mining and shipping in the land of the Rising Sun and abroad Owing to the peculiar system in Japan, where the family, and not the person is the unit, the whole business is controlled by eleven families originating from the famous Fujiwara Clan, of which the present head is Baron Hachirovemon Mitsui The Mitsui Bussan Kaisha forms the Trading Department of the Mitsui House and it is in this department specially that the great operations of the firm are known abroad The Mitsus have been established in banking and other business in Japan for upwards of 200 years but it was not till the incient exclusive policy of that Empire was abandoned that the foreign trading department known under the above title was estab-lished This occurred in the year 1876 The progress of the louse has been rapid since that date, and it is no by far the most important commercial house in Japan, its foreign business alone totalling seventy million yen per annum, or one-seventh of the total foreign trade of Japan The Company in Japan export coal (from their ou i mines), rotton yarn, raw silk habitai ricc, cotton cloth, copper silver, campl or, cord, cement, timber railway sleepers sulphur, matches and many other raw and manufactured materials and import a very wide range of goods from leaf tobacco up to buttleships They own a fleet of seven efficient steamers, all 100-A1 and of gross tonnage aggregating upwards of 20,000 tons steamers ply in the carrying trade to all parts of the Near and Far East, including Ringoon Although the curiving capacity of their own stcamers amounts to more than half a million tons per annum the extensive operations of the Company require much additional tonnage, and they are well known as one of the great charterers of steam and sail in London and in the East The port of Rangoon receives its full share of the great trade of the Mitsui Bussan Kaisha, although the Company only established themselves in the c ty in December 1906 Before that period the trade

vas zeidous in his religion and paid frequent visits to the holy cities of Arabra Mecca and Medina in both of which cities he established a residence. He was noted for the



Mr. ABDULLA MOOLLA DAWOOD

helping hand he extended to all needy Indian pilgrims to the land of the Prophet and by these he was revered and esteemed

Messrs MORRISON DAWN & Co Produce Freight and Exchange Brokers Rangoon This leading firm of Brokers was started in the year 1883 under the style of Morrison, Downes & Co, by Messrs Donald James Morrison and Logan Lewis Downes In 1900 Mr Frederick Leigh Dawn was admitted as a partner, but the firm was carried on under its old style until the year 1905 when on the retirement of Mr Downes, the designation of the firm was altered to correspond with the names of the two remaining partners, and became Morrison, Dawn & Co The firm is now carried on by these two gentlemen Mr Dounes arrived in Burma in 1872, and Mr Morrison in 1876, both as assistants in the firm of Todd, Findlay & Co

Since February 1st 1909, Messrs Morrison and Dawn dissolved partnership, and Mr Morrison took into partnership Messrs Philip Henstock and Algernon Haslehurst Smith The business being continued under the style of Morrison & Co

MOLIMIAN HI $A \times D$ MIKAHD WAHK MANULAC IORY : Moulmein Thi has been in existence, mee the early seventies having been ornivally established by Mr. H. Murlen. It v is sold by Mr Murlea to Mr Octo Grotto who cirried it on till the veir 1895 when he disposed of it to the present proprietor. Me e-D. H. Huche and W. P. Mitchell The output of the Tietory's hin it was first started vas but and one ,00 lbs perday but in tho eday this quantity viv urleagnt not only to upply local dearend at Moulmen but to leave a surplus for hipment to Rancoon The demand at Moulment since the demand at Moulmein since seventies has enormously in real. I ind nov stands at 10 to 1, 10 to per day of which the Monlinean lee Company supply one third or four tons. The Company Luctory is compared with the late time him ery for the purpose of ice mil miand is run by steam and oil engines. Besides the manufacture of ice the Company undertake the production of ill linds of arrived viters in which they corry on a Lirge business. This is the oldest business of the land at Moulmein and holds a hading position. Mr. W. P. Mitchell v is educated at St. Nivier's College Cilcutti, and St. Joseph's College Dirjecting He is in experienced man in the ice and acrated vater business having twelve years in which he has been engaged for. He has served tvo terms as a Municipal Commis sioner at Moulmein

The MOULMEIN PHARMACY Wholesale and Retail Chemists corner of Lower Main Road and Mission Street Moulmen Estab lished in the year 1907 by the sole proprietors I I An Pan and Dr L I Ah Pow The firm carries on a general chemists and druggists' business, importing medical requirements of the very best quality direct from Europe They stock all descriptions of patent medicines of the best varieties and also deal in medical and surgical instruments required by professional medical men, besides all requisites for medicine and surgery. They have an optical department where they do il in spectacles, eye-glasses and all other aids to vision. They have

not fled proces appear to reslitte for the reams of see sight and which from the first the ton of its led a Birma II special versiched doct from the cell buse to mad keptert When and Relberg Ltd. of Lords. The Morling to the real of the op nin - a photo caphawhere they to be not declar all deceptions of photosophical spparatular frequible exists folds the party adjusts a practic population of the state the vest for develop reserves the betautte Intherbier the time expression to a total porer (1) so is much so positive disposing the both deed of making up prescriptors to redrive process Mills the ard lab lore imported dreet from I are and the dispersion of partment Somally up ry od by Dr Ali Pa-li my h Dr I I Ali Po y a born in the year 1875 at Moulton and reserved he education at the Mont. men and Ramoon college. He tool had A dearer in 1895 to for clime he parsued the avection of teacher it one of the local Mission schools and during this proof be passed the ligher grade Tescher's Examination In the year 1900 he proceeded to Cheutta in order to pursue his medical studies. He joined the Cilcutt's Medical College ind in 1905 he passed out with the degree of I MS. In the following year he passed the M.B. degree taking first place at the Calcutta University in the Medical Department. He was awarded the University Gold Medal and also the Silver Medal for Midwitery He obtained the University honours in midvifery and gynecology in November 1906, and in the following veir returned to Moulmen where he has since practised as a physici in and surgeon. He can be consulted at the Moulmein Phirmacy at all hours of the day L T Ah Pan, partner with Dr Ah Pow in the above firm, was born in 1872 at Moulmein and educated at the Moulmein and Rangoon colleges For seven verts after completing his school course he employed himself teaching in the Mission schools of Moulmein and Rangoon He succeeded to the timber business of his father in the year 1896 and for the next ten years

Mookerjee is the oldest established in this line in Calcutta. It was originally founded in the year 1852, and has been carried on by members of the same family ever since



Babu N C MOOKEPJIE

The firm is now composed of the sons, nephews and grandsons of the original founder, Mr S C Mookerjee, son of Rajkissen Mookerjee, being at present the principal partner, and Mr N C Mookerjee, the next They do a very large business and give employment to several hundred men In the year 1882 the contract for the well-known "Anchor" line of steamships was placed in the hands of this firm, and they have continued The prosperity of it ever since the firm of Rajkissen Mookerjee dates from the year 1850, when Captain Jas Nourse, the then Master and Owner of the ship "Tasmania," placed all his busi-This included ness in their hands the handling of twenty sailing ships and steamers, and the furnishing of emigrants, stores, provisions and other necessaries for the coolies, carried in the vessels belonging to the Agency The firm of Rajkissen Mookerjee were markedly successful in carrying out the duties involved in the contract

Messrs MOOLLA DAWOOD, Sons & Co, Merchants, Commission Agents, Export and

Import, Rice Mill Proprictors, Rangoon, Bombay, Calcutta and Chittagong This firm has been established for nearly half a century, having its beginning in the year 1861, when the enterprising spirit of Moolla Dawood Hoosain brought him to Burma to establish a trading firm in his own name Moolla Dawood Hoosain was a native of Kathiawar in Western India, his birthplace being Jamnagar, the capital of the State of the same name, now ruled over by Prince Ranjitsingh the renowned cricketer After a few years spent in fostering the trade of his firm, Moolla Day ood was joined by his elder brother, Haji Vally Vahomed Hoosain, whom he admitted as a partner to his busi ness From that time up to the year 1903 the brothers Moolla Day ood and Haji Vally Mahomed carried on the business, together sharing the responsibilities of the firm, the death of the elder brother occurring in that year After a time Moolla Dawood, feeling the pressure of advancing years, resigned the control of the business to his sons, the sons of Haji Vally Mahomed



Mr AHMED MOOLLA DAWOOD

having separated from the firm on the death of their father. The business of the firm has from that time been carried on jointly by the sons of Moolla Dawood on the same basis, but under the new style and title of Moolla Dawood, Sons & Co, in which firm the partners are — Ahmed Moolla Dawood, Abdul Sattar Moolla Dawood, Suleiman Moolla Dawood, Abdulla Moolla Dawood, and Mahomed Hoosain



Mr MAHOMED H M MOOLLA DAWOOD

Mucky Moolla Dawood The firm has flourished under the able management of the successors of Moolla Dawood and has a sound reputation as a good old standing business with which the residents of Burma are well acquainted The principal business of Moolla Dawood, Sons & Co consists in Rice Milling and Export and Import Commission Agency They own Rice Mills at Dawbong, Poozoodoung Creek and at Kanoungtoe, Oil Presses at Dawbong and Myingyan, and a Ginning Factory and Cotton Press at Myingyan and Allanmyo They have branches at Bombay, Calcutta and Chittagong, and correspondents in most parts of the world Over and above the thriving business which they command, the partners are large landed proprietors The founder of the firm, Moolla Dawood, departed this life in the year 1905 at Rangoon He was an orthodox Mussulman of the old school, and distinguished for his charitable works, by which he earned name and fame, spending freely on others the money which his business abilities enabled him to earn He

the 7th Royal Fusiliers and retiring with the rank of Major, settled in New Zealand Mr G S Clifford came to India in 1886 where he entered the Government Postal Service, in which department he served in many parts of India and Burma He resigned the service in 1899 and joined Mr S A Mover who is his father-in-law, in the business of Mower & Co Mr Clifford is now Managirg Director of the Rangoon Docking and Engineering Company, Limited Rangoon Steam Rope Manufacturing Co, Ltd, Rangoor Oil Company Ltd, and The Bank of Burnin Itd Both Mr Mower and Mr Clifford are members of the Chamber of Commerce and take in active interest in all commercial matters, more especially in those connected with the development of the mineral resources of Burma

The MYSORE FRUIT SYNDI-CATE, Limited This Company was founded on June 1 1907, with a capital of Rs three lace (3,00,000) in shares of Rs 100 each 80,000 shares issued are fully paid up The Chairman is Rao Bahadur Arcot Maigandadeve Mudaliar a name which augurs well for success The objects of the Syndicate are the growing and vending of fruit of all descriptions. About forty acres have been planted on land near the Palace of H H the Maharajah of Mysore, with 12,000 grape vines, in 21 varieties, also Pears, Plums, Peaches, Apricots, Apples and Cherries and there are in addition some 150 Australian Navel Orange trees, seedless conditions in Mysore are most favourable to the cultivation of fruit and that produced by the Syndicate is of the highest quality and most delicious flavour The Syndicate have also taken up 600 acres of land in the Marikanavi District of Chitaldrug, about 60 miles from Bangalore where water is available for irrigation from a large lake, the largest and artificial in India, eighteen miles by five miles and 150 feet in depth They have well stocked nurseries for extensions and replanting and further supplies of plants including olives for windbrake have been ordered from Australia Despite a generally poor season (being the first year of bearing fruit) the first year of the Company's working resulted in an excess of receipts over expenditure Scarcity of water for irrigation has been overcome by the kindness of the Mahninja who has accorded the Syndicate permission to draw supplies from the Sankey's reservoir, for the distribution of which a large storage tank of 60,000 gallons capacity has been erected. The soil and climate of Mysorc have been pronounced by experts eminently suitable for fruit cultivation and the Syndicate have a prosperous career before them

Mr MICHAFL JOHN PAUL, Horticulturist, of 30 years' practical experience, Manager, Mysore Fruit



Mr M J PALL

Syndicate, Limited, Bangalore Born at Victoria, Australia, Educated at Model School, Melbourne Mr Paul has travelled extensively gathering experience everywhere of the fruit industry He resided for some time in Persia in the vicinity of Mount Ararat, where he studied the world's old vines of the region, the seedless variety of Sultana grapes He voyaged from Asia Minor down the Euphrates on goat skin rafts to Bagdad thence by camel to Damascus, visiting the Holy Land, and, via Trieste, on Vienna, Russia, and Siberia, returning to Astracan and then

by the Volga River, the Cispian Sea and back through Persic in Jeheran the Capital to India and back to Australia three years' trivelling Then to * the United States of America where he purchased a fruit form in Califor ma He sold out after three years and went bick to Justralia cia Nev Zealand He took up a block of forty acres and established a success ful fruit farm, but the excessive rates of wages and general labour conditions in Australia caused him to sell out He came to India ty o and ahalf years ago and travelled here to discover the most suitable place for fruit farming, fixing on Mysorc His Highness the Maharaja showed his interest in the project by allowing Mr Paul to take up 35 acres near his Palace, a great favour. This he successfully planted being subsequently induced to start the Mysore Iruit Syndicate, Ltd., in which Mr Paul holds one-third of the shares and of which he is now Mana ger His Highness has shown further interest by arranging for Mr Paul to give a series of lectures on fruit growing, and there are several students now training under him Mr Paul's great and varied experience of fruit growing marks him out as the man to revive the industry ın India He is very sanguine of success, particularly in raisin production and all kinds of dried fruit, the demand for which is large, and the supply comes from countries where labour is much more expensive than in India He believes India can supply her own needs and also produce very largely for export

The MYSORE MANGANESE Company, Limited Manganese, in the State of Mysore was brought prominently into notice about 1903-1904 Three gentlemen, Messrs Holmes, Short and Leisham, took out prospecting licenses At first they met with difficulties in attempting to turn their discoveries to account and their applications to interest various firms in India and in London were not successful Early in the year 1905, these three gentlemen combined with a few friends in Madras to start the Madras Mysore Mining Syndicate with a capital of a lakh of rupees of which Rs 50,000 were subscribed

carried on the business of a timber merchant. He retired from this business in 1906 and joined his brother Dr. Ah Pow in starting the Moulmen Phormacy. He acts as Agent for the China Mutual Insurance Company. He has a charitable disposition and has been of considerable assistance to the local Missions. For these institutions he has erected many buildings, obtaining labour on reasonable terms and giving personal superintendance to the work.

Messrs MOWER & Company, 8-12, Spark Street, Rangoon, Managing Agents for the Rangoon Steam Rope Manufacturing Com-



M: S A MOWER

pany, Ltd, the Rangoon Docking and Engineering Company, Ltd, and the Rangoon Oil Company, Ltd This business was started about the year 1875 by Mr S A Mower, under the style of "S A Mower & Co" At the beginning, operations were confined to rice-milling, and Messrs S A Mower & Co were the first to open up the Dalla side of the river for the rice industry, which they carried on till 1885, when Mr Mower disposed of the business The firm of Mower & Co, as at pres ent carried on, was constructed out of the original firm, the partners being Mr S A Mower and Mr G S Clifford The new firm under

took rope-making and engineering the business eventually developing into the Rangoon Docking and Engineering Company, Limited, and the Rangoon Steam Rope Manufacturing Company, Limited, in which the partners of Messrs Mower & Company retain all the shares firm of Mower & Co act as Managing Agents to the two limited Companies, and they have also established the Burma Petroleum Producing Company Messrs Mower and Clifford are also Directors and principal shareholders of the Ran-In 1893 the goon Oil Co, Ltd engineering business of the Rangoon Docking and Engineering Company was extended by the purchase of the works of the Burma Iron Works and Engineering Co, Ltd, at Duneedaw, and in the following year the Rangoon Docking and Engineering Company established themselves very largely in the import business Messrs Mower & Co are also Agents for various exporters and for the following English and German firms of manufacturers whose specialities they exploit in Burma -William Wilson & Co High class Boilers, Hornsby Akroyd Oil Engines, Wouldham Cement Company, the Southwark Manufacturing Co, Beltings, Wilson Cobbet, Beltings Turner Brothers, Beltings, Richard Klinger, Patent Water Gauges, Schuchardt & Schutte's Manutactures, Nicholson File Co, Kirchner's Wood Working Machinery, Koppel & Co s Light Railway Materials, T A Ashton of Sheffield, E S Hindley & Sons, Royce Limited, Dynamos, W Sisson & Co, the New York Export and Import Co Through the Rangoon Docking and Engineering Company they undertake launch, pontoon and flat con struction and repairs, construction of nice and saw mill machinery, and they are importers of engines, boilers, and engineering and mill stores and machinery of every description The Rangoon Steam Rope Manufacturing Co's Works are equipped with the most improved and modern rope and coruage making machinery, and ropes, cordage and paulins of all descriptions and sizes are stocked, or manufactured to order The present paitners of hessrs Mower & Co are S A Mower and G S Clifford

Mr SEYMOUR ALFRED MOWER, Senior Partner in the firm of Messrs Mower & company, com s of an od Somersetshire family In 187; he started business on his own account in the ricemilling industry, which bu mess he dis, old of prior to starting the p esent firm of Mover & Co In conjunction with Mr G S Clifford, he established the businesses of the Rangour Docling and Engineering Company, Livited, and the Rargoon Steam Rope Works, as well as others He is a Director of the Bank of Burma and of the above Companies, and of the Rangoon Oil Company, Ltd The name of Mr S A Mover in conjunction with that of his firm has been recently brought proninently before the public to connection vith the training schime for the river at Raigoon, land having been purchased from him by the Port Trust for extensive improvements Vr Mower las al avs taken an active interest in public affairs and was for some time a member of the Municipal Council of Ranguon

Mr GFORGE STAUNTON CLIFFORD, Fartner in the firm of Messrs Mower & Co Rangoon was boin in 1867 at the Depôt, Jella-



Mr G S CHIFFORD

puhar, and educate l at Wellington, New Zealand His father served in

Helgers & Co, of London and Calcutte, h s fe'her's firm, in which he obtained his training in commerce Later he was pprenticed to a firm of h de and leather brokers, and thereafter came to Madias on behalf of Messrs De Clermont and Dorner the largest firm connected with the hide and leather business in London He started in business on h s own account in 1891 and six veers later converted his business in o a limited liability company under the style of the Arglo-Indian Trad ng Company For three years Mr Eales was Government representative on the Ma ras Harbour Trust The Arglo-Indian Trading Company are also now Managing Agents and Secretar es to the Bangen palle Mireral Syndicate the Myso e Chromium Company the Rainspuri Syndicate, and Sh moga Gold Fields, Ltd Mr Leles is a Director of all these Compan cs and Charman of two of them Quite recen'ly the Anglo-Indian Trading Company has undertaken the Managing Agercy of the Peninsular Mirer ls Compeny of Mysore in the expectation of placing that Compary on a firmer position and of doing as well for it as for the other Compen es whose affa rs they have successfully managed. The head office of the Anglo-Indian Trading Company is at Madras, and there are branches at Marmagoa and Bangalore

The MYSORE SPINNING AND MANUFACTURING Ltd, Bangaloie Head office, Bank COMPANYStreet, Fort, Bombay N Sirur & Co, Agents, Bombay Establi hed in the year 1883 Confine their opera-tions in this In, to the spinning and weaving of cotton only, but have added a Flour Mill a tached to their Spinning and Weaving Factory at which they gin l, roll and store flour for local con umpt on The Sp nn ng and Weav re M II contains 16,000 spindles and 223 looms and makes yarns from "6s to 32s" The Mills are now under extension for weaving purposes The Con-I any do the r own dye ng and man facture coloured cloths The Government of Mysore is interested in the enterprise of the share-Folders of the Company, and have rendered it assistance in the past for the purpose of fostering the

spinning and weaving industry Flour Mill has an output of about 25 bag, per diem The buldings The are pucca edifices of stone with tiled 100fs, substantially built and covering about six acres, and the Mills give employment to about 800 hands The cap tal of the concern is Rs 423370 The Charman of the Company is Mr

Mr DON ILD JIMES ROSS, Manager of the Mysore Spinning and Weaving Wills, Bangalore, was born in Scotland, and educated in Englan [He studied at the Wanchester Techn cal School where he rema ned



Mr D J Ross

for a course of five years' training In 1893 he proceeded to Ceylon to take charge of the Cevlon Spinn ng an I Weaving Mills He ren a ned in charge of the Mills for ten years, hav rg jo ned the above Mills at Bangalore as Manager in October 1907

Rei Behadur DHARMARAT-NAKARA ARCOT NARAYAN SWAMI MUDALIAR, Merchant Born May 25, 1828 The Rai Ba-hadur though coming of an hishadur, though coming of an historic family the members of which had occupied high positions in the past, yet has raised himself by own evertions from a position of obscurity to one of affluence, and is now marked as the richest man in the Civil and

Military Station His great-grandfather Sandiappa Mudaliar was Secretary to the Rajah of Jinji He also possessed large landed estates He left a son, Muthu Pillai, v ho v as purveyor to the Nawab of Arcot and obtained much consideration from that ruler, being favoured with marks of honourable distinction He marr ed the daughter of Parasurama Mudaliar, Superintendent of Gun Carriages and Councillor to the Nawab Muthu Pilla by reason of his attainments in Persian and Hirdi v as appointed Head m in by the people of North Arcot on the occasion of the revenue settlement of that place He carried out his duties in this connection to the satisfaction both of the people and the Government fell into missortune however disastrous fire destroyed his house and all its contents. His loss was so great that he died shortly after. wards of the shock His property being thus swept away he left his family in poor circumstances His son, Muniswami Mudaliar, came to Bargalore and supported himself and family by service as an accountant Muri-wami was the father of Mr Narayanswami and had two younger sons as well, Muniswami and Muthuswami The father died when Wr Narayan swami was ten years of age and ever since that time the present Rai Bahadur became the support of his mother and brothers and embarked on the career of industry which has led him to his present commanding position At this time he had no knowledge of English but was able to read and write his native language, Tamil It was not, however, till the year 1550 when he was 22 years of age that Mr Narayanswami mercantile operations which have commenced the since led him to fame and fortune At first he traded in vegetables between Bangalore and Madras market produce commanding high prices in the latter town while being extremely cherp at Bangalore This business prospered and he added to it trade in Madras salt wh ch he disposed of at Bangalore, within a couple of years he had amassed sufficient capital to establish a shop in the Cantonment which quickly became lucrative

and Rs 20 000 paid up Mr W J Eales, of Madras, was appointed Manager to the Syndicate, and was the last member to make up the requisite number for the registration of the Syndicate Mr Eales had no previous knowledge of the Manganese trade of the west On the formation of the Syndicate thorough prospecting work was commenced on one of the blocks, Kumsi I quantity of orewas raised and then began difficulties connected with the question of transport. It was required to carry the ore over 41 miles of practically trackless country from the mine to the road, and further some 14 miles by road to the Rulway at Shimoga Contractors were obtained to perform this work and the first ore was got away from the mine in September 1905 The first contractor was unfortunately unable to continue, and a second and a third had to be engaged to cope with the output of the mine Shipments were commenced late in 1905, and proceeded regularly The business in 1906 had attained sufficient importance to be floated as a limited liability Company and this course was pursued without having recourse to the public. The capital was fixed at 10 lakhs of rupees out of which the vendors received 6 lakhs and one lakh was subscribed at Rs 25 per share, this amount forming the working capital of the Company Forward sales were continued at remuncrative rates very facilitate transport and thus enable the Company to cope with its sales, a light railway, 30 miles in length, was laid down from the mine to The extra mileage was Shimoga incurred in order to pass in the vicinity of another mine, as well as to avoid excessive gradients over I in 100 The working of the Company was so successful that in July 1906 an ad interim dividend of 25 per cent was declared Mr Eales visited England in 1906 to study the question of Manganese, and extended his enquiries to the Continent It fell out that in the autumn of 1906 the price of iron and steel working ores came in for a "boom" and Mr Eiles was enabled during his stay in Europe to dispose of the properties of the Mysore Manganese Company to great advantage The purchasers

were a syndicate of gentlemen, and the Workington Iron and Steel Com pany of Workington, England The price secured was froo,000 in cash and f50,000 in fully paid up shares in the new Company which was floated, named the New Mysore Manganese Company The sale was facilitated by the fact that the Workington Iron and Steel Company having used one or two cargoes of the Mysore ore had obtained results therefrom never before realised from any other Manganese The New Mysore Manganese Company was registered in England the Chairman being Mr Joseph Ellis, and the other Directors Sir John Randles, MP and Messrs Η Mallalien,



Mr W J EALES

Mallalien and F Mallalien, all members of the Board of Directors of the Workington Iron and Steel Company Mr W J Eales was appointed Managing Director in India For the management of the Company's mines there is a thoroughly efficient of young energetic and practical men, nine in number, all Europeans The Company possesses its own thoroughly up-to-date laboratory and chemist, who has not only acted in this capacity for many years at the laboratory attached to the Workington Iron and Steel Works, but is a man practically acquainted with the smelting and treatment of ores Mr Strongirst, the Superintendent in

charge and his assistant, Mr Willey, have both obtained high degrees at the Royal School of Mines in England They have the advantage of a thorough knowledge of metallurgy as well as geology The railway between the mines and Shimoga was completed early in 1908 at a cost of some £50,000 to £60,000 It is now equipped with ten locomotives with a sufficiency of rolling stock. In spite of the general dulness in the metal trade at present prevailing the mines are despatching some 6,000 tons of ore monthly Kumsi is the chief block which has been mined up to the present From this mine alone to end of June 1908 some 170,000 tons of ore had been shipped to Europe The ore is placed on board at Marmagoa, 240 miles south of Bombay The quantity shipped forms almost a record from any one particular mine, considering that during 1906-7 the ore had to be sent by bullock carts each taking no more than half a ton to the The strain of such an railway arrangement on the organisation may be imagined. Another mine also being worked by the Company has produced 20,000 tons of ore The Company's Manganese siemarkable for its evenness and high percentage of metal the average of the whole quantity shipped being as high as 48 to 50 per cent The management, not only of the Madras Mysore Mining Syndicate, but also of the Mysore Manganese Company and of the New Mysore Manganese Company is in the hands of the Anglo-Indian Trading Company, of which Mr W J Eales the Managing Director He arrived in India in the year 1882 and though but a youth at the time took command of a large Company, interested in leather, of which commodity Mi Eales is a specialist, and considered one of the best authorities in South India Devonshire, England, is Mr Eales' native county, where he was born in the year 1860 His family is an old Devonian one which has contributed many of its members in past and present times to the Navy He was educated at Weymouth Grammar School up to the age of 14, when he was sent to Germany for the finishing of his education In 1875 he joined Messrs F W

indigent orphans. He built resthouses To these benevolent institutions he has now added this orphanage which he has wisely decided to erect in the neighbourhood of the High School, so that the orphans will not only be supported and maintained, but will also receive a suitable education in the neighbourhood of their place of residence" After alluding to the recognition of the Rui Bahudur's liberality and the honours he had received from the British and Mysore Governments, His Excellency added - 'I trust that Mudahai s Narayanswami generosity may aftord a valuable incentive and example to the wealthy men of this part of India'' In 1806 the Rai Bahadur constructed a building for the use of the Brahmo Somaj Again, when the plague was at its height Mr Naray inswami proceeded to Conjeeveram, and while at that place the inhabitants represented to him their want of a Girls' school Mi Narayanswami complied with their wishes and established the school purchasing the necessary building The school, however, rapidly outgrew the premises and he generously provided a new building, the foundation-stone of which was laid by the Hon Dewan Bahadui Mr (now Sir) Subiamanya Iver, of the High Court of Madras On this occasion Mr Subramanya Iyer recounted the many charities of the Rai Bahadur and said "Those who, like our friend Mi Narayanswami Mudaliyar Avergal, freely distribute their wealth for worthy objects, may well look upon themselves as the specially chosen instruments of Providence This institution was dedicated to the memory of Mr Narayanswami's son, who inspired and helped him to carry out his many charities and he accordingly named it Mudaliyai Balika '' Kannappa Patasala -A further public bencfaction was the founding of a Technical School for Engineering The Mysore Government have aided this institution by providing passed scholars with appointments in the Public Works Department The late Maharaja Chamarajendra Wodayar Bahadur at the Dusserah Assembly in 1894 conferred on Mr Narayanswami the title of

"Dhaimarathnikari" Rai Baha-dur Naiayanswami nov hies in retirement full of years and honour The management of his possessions vast concerns and have been entrusted to his nephevs and his time is now fully occupied in the study of religion, of which he is a student of all. He is a firm friend of the Brahmo Somaj and the social reform movement The following is a list of his public benefactions at Bangalore -The High School, Civil and Military Station Technical School attached to the above Branch Primary School, Ulsoon Thirukalathai School, Ulsoor Govindamull's School, Ulsoor Orphanage Chat-Ulsoor trum for travellers Maternity Ward in the Bowring Civil Hospital Temple and Library Two Police outpost Stations, Civil and Military At Conjectoram, Hindu Girls' School, Feeding House and second Hindu Girls' School These have cost Rs 1,90,000 and he has given a further Rs 1,70,000 in endowments, besides spending no less than Rs 38,000 in feeding and private charities. These charities ire administered by an influential Committee of which Mr Narayanswami's nephew, Rao Bahadui Vicot Maigandadeva Mudaliar, is the Secretary This gentleman was born in 1862 and is the second son of Mr Narayanswami's youngest brother, Muniswami Mudahar Mr Maigandadevi received his education at an English school where he devoted himself with great success to study. He left school early as his uncle had much need of him to assist in managing the various affairs of his business He showed such skill in business that after a few years the whole management was entrusted to him Maigandadeva has worthily upheld the traditions of his family for public-spirited acts of charity, and in fact has been the right hand of his generous uncle for years past, dispensing benefactions He was married in 1881 to Sivagangai Ammal, whom he unhappily lost after a wedded happiness of twelve years In her memory he built a Gosha Hospital on the occasion of the Diamond Jubilee He has taken great interest in social and religious affairs and was institumental in establishing the Social

' ') in there Club at 12 locating Society For many years Mr Maigandadeva acted as a Municipal Commissioner of Bangalore and has also for a long time been a Special Magistrate Mr Mugandadeva has been the worthy associate of his uncle, and has earned the enthusiastic esteem of his fellow countrymen by his benevolent disposition and his ability in representing them as their spokesman on various occasions This esteem found vent in universal congratulations when in 1901 the British Government conferred upon him the personal distinction of the title of "Rai Bahadur" Rai Bahadur Maigandadeva is Director and Chairman Mysore Fruit Syndicate, Churman of the Mysorc Lannery Co, Ltd Chairman Bombay-Wysore Mineral Syndicate, Ltd., Director, Bungalore Woollen and Silk Mills Company, Itd, Ducctor Bangalore Bank Ltd, and President, Hindu Widows' Pension Fund

Messis N MAPIEI & MARFIN,
and Contractors,
rect, Rangoon
Established 1900 Sole proprietors,
Messis M J Nahapiet and V J
Nahapiet

Messrs N th spict and Martin src in a very large way of business in Burma, and have in addition agencies all over India and Europe Among other large contracts carried out by the firm, was the Mandalay Market, a fine structure and the largest market in the East, covering 600,000 square feet or 14 acres The cost was about ten lakhs of rupees The whole of the steel work, amounting to over 1,200 tons, and all the rest of the material was supplied and erected by Messrs Nahapiet and Martin The Bazaar is divided into 12 sub-divisional blocks, 8 large and 4 small These contain in all 1,152 stalls Up-todate sanitary arrangements in connection with the market, but outside its precincts, were erected by the firm The market is fully equipped with fire appliances, also the work of the firm. The whole was built within eighteen months, and forms one of the chief sights for visitors to Mandalay The Electric Tramwiy and Lighting Power Stations it Mandalay are also the work of

and he opened a branch at the Infantry Barracks In 1859 he secured the patronage of the late Maharajah Krishna Rajah Wodayar Bahadur and the progress of his business from that date was extremely rapid His dealings became more and more important In 1862 he adopted the title of "Mysore Hall" for his emporum m token of grit tude to the sovereign prince of Mysore In all his dealings Mr Nariyansyami secured the esteem and respect of his clients, and his popularity with the higher officials of State soon became firmly established In 1867 he launched out into a nev



Rai Balindur D. A. Narayanswami Medaliar

line of business and with Mr Wallis entered into partnership with Ru Bahadur Bans Ial Ramarathan who had secured from Colonel Sinkey at that time Chief Lugineer, the contract for the building of public offices The contract was a success under the supervision of Mr. Numswami Mudahar the younger brother of Mr Viray insy imi The building creeted by the partners remains an ornament to the city of Bungalore There has been no check to Mr Aniyanswami's fortunes ever since. He has risen steadily in public estimation and iffluence and has well employed · the riches he has carned. The

honours he has received have been unsought The late Maharajah of Mysore who held him in high regard once sent for him to enquire if there vas any favour he could bestow upon him, and vas met with the characteristic reply from Mr Virayansi ami that he wished no other taxour than His Highness grace but later he begged the Milharaja to render all possible aid to the educational institutions he had established a high request was readily granted. On the occasion of the Imperral Assemblage at Delhi Mr Narayansv inii Mudaliar received the title of 'Rai Bahadur' is a recognition of his public spirited acts of charity Mr Sunders then Chief Commissioner who attended the Assemblage and had personally interested himself brought him news of the title that had been bestowed on him. The responsibilities of great veilth have dvivs been well recognised by the Ru-Bahadur v hose benefactions have been on a large scale and have extended over many years past. In the year 1875 he founded in Linglish School teaching up to the Middle Standard After years of usefulness the school yas rused to a High School and is not the only establishment in Mysore founded by a Hindu gentlem in which teaches up to the Matriculation class. It possesses a Committee of management on which among others several high officials serve. The school buildings are magnificent crections of granite situated in a healthy part of the Station In connection therewith two branch institutions one at the Cantonment and one at Ulsoor, have been opened. The famine of 1577 gave the Rai Bihadur a great opportunity for his charitable endeavours in alleviating distress, of which he took full advantage Food and shelter were bestowed by him upon many unfortunates who were iffected by the searcity of food As a relief work he started a Woollen Mill where boys were taken melothed and fed, and taught to work. In this asylum they were allowed to remain until of age In 1883 the Rai Bahadur failing in an attempt to persuade the Government of Mysore to look favourably on the cause of the Parishs who had no means of

education, himself started a school at Ulsoor which was styled the "Thirukalathar" School teaching up to the Primary Standard Again, in 1886 he gave the cause of education efficient and by starting a Grils' school, which, in honour of his deceased wife, he named the 'Govindamull' School In 1893 the Rai Bahadur founded an Orphanage of which II E Lord Lansdowne at that time Viceroy of India laid the foundation-stone before a very large gathering. He deposited Rs 30,000, the interest of which is devoted to meet the ord nary expenses of the institution. The Viceroy in replying to an



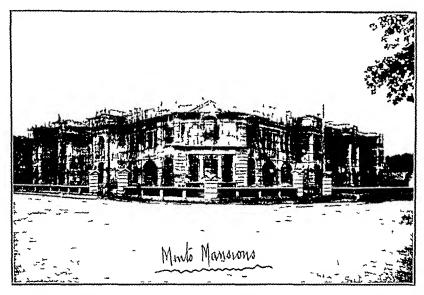
Kii bidiidii A Maigandadeva Mudaliar

address on that occasion, alluded to the many benefactions of Rai Bahadur Narayanswami He said "I feel quite sure that the Orphinage will prove a valuable addition to the charitable institutions of Bangalore They owe a deep debt of gratitude to the benevolence of Mr Narayanswami Mudaliar I find that many years igo, recognising the want of schools, he built a school at a cost of Rs 50,000 and he afterwards added three branch schools in the neighbourhood Again, at the time of the famine of 1877-78, he took upon himself the charge and maintenince of a large number of

MESSRS NAHAPIET & MARTIN, ENGINEERS, BUILDERS AND CONTRACTORS



EXTERIOR, POWER STATION, MANDALAS



BUILDING UNDER CONSTRUCTION BY MESSRS NAHAPIET AND MARTIN, RANGOON

Messrs Nahipict and Martin The power supplied runs the transcurs as well as supplying electric lighting for the town of Mandalay. The

was the manufacture of Messrs Edward Wood & Co the Ocean Iron Works, Manchester Messrs Nahapiet and Martin are also the



GOVERNMENT CURRENCY OFFICE, RANCOON

cost of the work was two likhs and the building of the Power Station was carried out by the firm concurrently with the con-struction of the Mandalay market They have also carried out many other large building contracts in Burma such as the Government Currency Offices at the corner of Phayre Shafraz and Barr Streets, Messrs Scott & Co's establishment, and the Burma Hotels Co, Ltd In fact, during the period the firm have been in existence, they have turned over about a crore of rupees in contracts, of which in the past seven years they have completed no fewer than one hundred and five They have at present in hand the contract for the erection of a warehouse and range of residential flats for one of the leading financiers in Rangoon, which is estimated to cost over three takhs of rupees This work required over boo tons of iron work, which was delivered and erected within four months of the signing of the contract The steel work

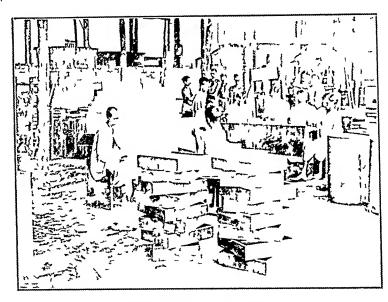
manufacturing agents in Burma for the well-known and celebrated Mack patent partitions, the works for which are situated at Dunneedaw East, Rangoon They also hold the agency for the Steleonite British stamped metal ceiling and decorations, and have many other agencies in the building trade. They have fine show rooms, fully furnished with samples of all requisites for which they hold agencies. Messrs Nahapiet and Martin employ a daily average of 500 hands, supervised by the largest European staff in Burma.

Mr MESROP JOSEPH NAHAPIET, Senior Partner of the firm of Nahapiet and Martin, was born in Persia in the year 1866 and came to India as a child He was educated at the Armenian College, Calcutta On the completion of his studies he obtained an appointment as Apprentice Engineer with the Rangoon Municipality for four years and subsequently served for a further term of 13 years as Assistant Engineer to the Municipality He resigned for the purpose of starting his present firm with Mr Martin Foi a time Mr Nahapiet, senior served as a Municipal Commissioner representing the Rangoon Trades Association He is a Director of the Burma Mines and Develop-

ment Company and the Burma Hotels Co, Ltd, and was one of the founders of the Burma Railways and Smelting Works, originally known as the Great Eastern



BUILDING I RECTED FOR STIEL BROS & CO, LTD, RANGOON,



THE NATIONAL SOM LACTORY

sought after by all persons of refined taste—a speciality is also made of transparent toilet soap

The National medicated soaps are very carefully prepared particular attent on being paid to the mixing of the ingredients in their proper proportions and so ensuring an article which can be absolutely relied upon by the purchaser

National soaps are free from moisture, and as such represent full value for the money, as they do not waste in the using

Highest Awards have been obtained for Naitonal toilet soaps at exhibitions recently held in Calcutta, Madras, Nagpur, Khulna Banjeten etc

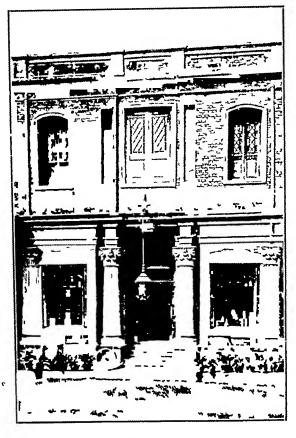
The NEW MEDICAL HALL, Lower Main Road, Moulmein Burma, Wholesale and Retail Chemists and Diuggists Established in the year 1902 by the sole proprietor, Mr John Johnstone The firm carry on a pharmaceutical chemists' business as well as that of druggists They make a speciality of dispensing prescriptions and deal generally in diugs, patent medicines, perfumery, toilet requisites as well as photographic and other chemicals A diplomaed medical adviser, Dr Kanga, is in regular attendance daily between the hours of 8 and 10 AM, when he is open to consultation free of charge Dr Kanga is considered one of the leading

physicians of Moulmein where he has practised for a number of years

He is a retired Civil Surgeon of Disthe Burma tricts, and has gient experience of the different maladies prevalent in Burma He is very popular with all classes though but recently established Mi Johnstone the proprietor has so ably managed the concerns of the \ew Medical Hall. that it is now the leading Chemists and Druggists' business in the Moulmein district The fine building in which the firm carries on its operations is a spacious structure of brick erected by the proprietoi especially for his business It is one of the ornaments of the town of Moulmein It is large and cool and offers protection against climatic influences

The firm is thus able to stock large quantities of drugs, and store them safely away without four of deterio ration Mr John Johnstone, the proprietor of the above business vas born at Bissem, Burma in the scar 1865 and educated at Mi St Clur's School Moulmenn He gained his medical and chemical training with Dr Wilke to whom he was apprenticed. In the veir 1880 he obtained the appointment of Manager to the Town Dispensiry He managed this firm's business with success for the period of 22 years till the year 1902 when he retired for the purpose of starting his present business. The energy and ibility which Mr Johnstone has displaced in establishing his new firm in a foremost position in the short space of six veris and with very little capital entitle him t addition to

upon which he has creeted the handsome premises of the new Medical



THE NEW MEDICAL HALL, MOULMEN

Lead Mining Company, in which he is still a large shareholder



Mr M J NAHAPILT

Mr VAGHARSHAK JOSEPH NAHAPIET, partner in the firm of Nahapiet and Martin, was born in Persia in the year 1870 and



Mr V J NAHAPHT

educated at Calcutta He came to Burma in 1892 and joined Messrs Sarkies Brothers, large hotel proprietors in the East He managed several of their hotels He joined

the Rangoon Municipality in 1895 taking charge of the Town Lighting Department While in this employment, he engineered several works outside of his own department He then returned to Messrs Sarkies Bros for another period of five years and took the sole management of their hotels in Penang and started the Strand Hotel at Rangoon for the firm In 1902 he joined the firm of Nahapiet and Mutin, in which he served for three years as Assistant, obtaining a partnership in 1905 While Assistant to the firm, he was in charge of the erection of the Mandalay market as Clerk of the Works

The NATION LL SOAP FAC-TORY, which is situated at No 92, Upper Circular Road, Calcutta, has achieved a sterling reputation for the manufacture of soaps of standard quality and excellence

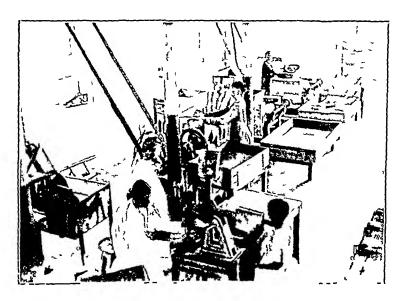
No expense has been spared in equipping the factory with the most modern machinery available, and all the latest methods have been introduced into the manufacture

A Japanese expert of long experience has been placed in charge of the works and has introduced into the production all the latest methods for purifying the raw material and producing a finished article of genuine merit

An improved process of boiling is employed which ensures a perfect combination of all the materials and leaves no unsaponified matter in the finished article Very great attention is paid to this, as upon it depends to a great extent a standard excellence of quality, insufficient boiling being largely answerable for the dirty appearance and irritating pioperties of many of the locally produced soaps, which destroy the natural properties of the skin and injure the beauty of complexion, besides being positively dangerous to young children

The aim of the proprietor has been to produce only the best grade soaps at a price within the reach of all, and judging by the cordial welcome accorded by the public to the articles now being turned out and the large increase of sales, he feels that his expectation has been to a large degree realized. The resources of the Factory are being taxed to their fullest extent to cope with the orders being received, while the utmost care is exercised to see that nothing but goods of first class quality are supplied.

The National toilet sorps are delightfully perfumed and in var ety and price are unrivalled—the delicacy and permanence of their fragrance causing them to be much



THE NATIONAL SOAP FACTORY

He was specially mentioned in the Administration Report of that year by the Chief Commissioner, who stated that fortunately for the people in need of relief, the District Officers and the Administration there happened to be at Moorwarra, a railway colony at the head of which was Mr Olpherts who had for some years taken an active interest in the country and the people With his able assistance and supervision a complete system of relief, comprising works for the able bodied, intermediate labour for the convalescent, and poor-houses for the infirm, was rapidly set afoot In the first report on the famine operations in the Jubbulporc District 1868-69, Vr Olpherts again received commendation "for the noble manner in which he laboured at the risk of his life, in the cause of humanity, with cholera and small-pox raging, in Moorwarra, with his own servants dying one after the other in his house, although his own immediate superiors asked him to leave Moorwarra and go to a more healthy station." Captain Ward, the Deputy Commissioner, in his report said that to him, a District Officer, Mr Olpherts' assistance was invaluable Further that in laying out the lines of roads enumerated in the report and in watching their construction he had given the Government the benefit of his services as a highly skilled Engineer unpaid His example too had been of the greatest use in inducing those who could afford it to come forward and assist their suffering brethren The Government of the Central Provinces presented Mr Olpherts with a gold watch and chair as a mark of appreciation for these services, the watch bearing an inscription to that effect In presenting this token of regard the Secretary wrote to Mr Olpherts "The thanks of the Mr Olpherts Government of India and of the Chief Commissioner were communicited to you at the time, but more satisfactory to yourself must be the knowledge of the gratitude with which you are remembered by the people of the tract of country which you so greatly benefited by your charitable labours It the time Mr Olpherts was surveying the Central Provinces for railway work he discovered the mineral resources of that country, and was the first to

bring them to the notice of Government For this service he received the thanks of the Central Provinces Government He himself worked mica lime, iron, corundum, and yellow and red ochres in these prov-Had he remained in the country to personally supervise the workings he would have become one of the richest men in India, but owing to the fact that he attempted to conduct the business from England through the medium of native agents, they never proved profitable to him with the exception of the ochre and red oxide works of which the management was taken up by his present Managing Partner, Mr



Mr Geo O FORRESTER

George T O Forrester who has carried it on successfully - It is now contemplated to shortly form a large Company to develop and work this promising industries The ochre and red oxide turned out at Olpherts' Metallic Paint Works have received very favourable reports from all quarters As far back as 1871 it was reported in the PWD that the cost of using the mineral paint was half that of the cheapest paint of any kind, and it was superior to any paint procurable in the bazaar and even to that procured from Bombay The G I P Railway contractors, Messrs Glover & Co, reported in 1871 that Olpherts' oxide of iron paint, with which, according

to the terms of the contract, the Taptee New Viaduct was painted, gave every satisfaction as durable, cheaper than English paint and had more body in it The yellow ochre was reported on by Messrs Recves & Sons of I ondon, the well-known experts, and pronounced to contain more ferric oxide than French ochre and to be superior in covering power and possessed 50 per cent more staining power The Indian ochre was more "bulky" and had a cleaner and more brilliant colour In experiments carried out in the Ghaziabad-Moradabad Railway in painting the Ganges Bridge at Garhmuktesar, Olpherts' red oxide proved the cheapest paint when compared with other standard paints giving equal results It was but the the cost of red lead "The Indian Engineer" stated in 1905 that among the pigments used for protective coatings to girders the oxide of iron known as Olpherts' pant was probably the best of the class and at the same time was one of the very few paints about which opinion is least divided Some authorities state it is the best paint for all purposes If procured in India and direct from the manufacturers or their Agents the paint is certain to be pure and will then be found both useful and economical Its great advantage is that it evercises a preservative effect on the oil used as a vehicle For wood it is probably the best coating in existence Similar excellent reports were made by the North-Western Railway and the Oudh & Rohlkhand Railway Mr George Tyrone O Forrester, Managing Partner, Olpherts' Metallic Paint Works, Katni, Central Provinces Joined the Olpherts' Paint Works in 1904 Since taking over the management he has with energy and practical experience worked up the business to a highly successful condition Mr Forrester is a large landowner in Moorwarra and is very popular with the natives in that where he owns several district, villages He is an Honorary Magistrate, a Municipal Commissioner, and a very keen shikari

The ORIENTAL TELEPHONE AND ELECTRIC Company, Ld, Rangoon Head Office, Alderman's House, Bishopsgate, London, E C Manager in Burma, Mr J J Bow-

Hall, Mr Johnstone has taken an interest in the public affairs of the town of Moulmein His local standing and popularity is proved by the fact that he was



Mi J JOHNSTONL

one of the first on the elected list of the Municipal Council of which he acted as a member for four years. He was also included as a Member of the Hospital Committee in which he took great interest until the pressure of his

business affairs denied him the opportunity of standing for re-election He has also been appointed Agent to the London and I ancishire Life Assurance Company and the British American Fire Insurance Company, for the Moulmenn His latest business ven-District ture is the promotion of the Tennsserim Motor-Bus Company running a motor service between Moulmein and Mudon, a distance of some twenty miles offering a great convenience to the travelling public of this district enabling them to get easy access to Moulmein

WYBRINDTS GEORGE OLPHERTS CE, Propiletor Olpherts' Metall C Pant Works Katni, Central Provinces Honorary Magistrate and Justice of the Peace came to India in the sixties as an Ingineer on the East Indian Railway and was employed between Allahabad and Jubbulport on construction work. While upon this work he surveyed practically the whole of the Central Provinces He was employed for about twenty years in the East Indian Railwiy and rose from an Ass stant Engineer to Executive Engineer Howrah While in railway employ he invented the Denham and Olpherts' Sleeper, which is largely used by all the railways of India

This invention saved the East Indian Raily as many crores of rupers. The value of this invention may be gaiged from the fact that in 1891 more than 5,000,000 pairs of these sleepers were in use on the Indian



Mr W G OIIBFITS

Government and Guaranteed Rulways. They were found to provide a very smooth easy riding trick with a minimum jolting or rattling with trains trivelling at high speed They have no leys to work loose or break or for villagers to steal they always preserve the correct gauge and required no adjusting and the lower table of the rail does not get marked or indented as on tracks where it is supported by chairs, and they are consequently available for service after the upper table is vorn out The above is from an apprecation by Mr Russell Trutmin, CL of Washington (USA) in a report to the United States Government on the substitution of metal for wood a railroid ties. In a report by the Chief Engineer to the Igent of the E I Rails is, dated 1878, Olpherts' Sleeper is described as stronger than any form of pot deeper and better idipted to cirry the heavy triffic of the L. I. Rulway and better suited for virying forms of ballist. The bearing surface is 14 per cent greater than that of the pot sleeper. In the funine of 1865-60 in the Central Provinces Mr. Olpherts did Jeoman service



INTITION OF THE NEW MEDICAL HALL MOLLAND

coal, and other minerals in the Balaghat, Bhandara, Nagpui Chanda and Jubbulpore districts of the Central Provinces, some of which are now being worked annual export of manganese comes to some thousands of tons through Messrs Shaw Wallace & Co and Schroder Smidt & Co Mr Byramjee is a landed proprietor and owns various villages in the Sihawa Circle of the Dhamtari Tahsil in the Raipur district, producing lac and rice for export. In addition to his other ventures Mr Byramjee accepted from the Central Provinces Prospecting Syndicate the contract for working one of the largest manganese deposits in India, the Bhurvelli Mines, Bulaghat and from Messis Tata Sons & Co, of Bombay the working of the Gudma Mines, and also from the Tata Iron & Steel Co the Ramaiana group contracts, which he is still carrying on Mr Byramjee has also found time to devote to public affairs In 1904 he was elected a Municipal Councillor of the Raipur Municipality, and in the following year was appointed an Honorary Magistrate by Government He shifted his head quarters to Nagpur in 1908 on persuasion of his several friends

Messrs F T PETERS & CO, Bugade Road Bangalou Cycle Carriage and Motor works and Livery Stable keepers. The sole pro



Mr F T PETERS

prietor, Mr. F. I. Peters established the cycle repumng department in rgor on a small scale Since then, the works have not only been considerably expanded but the abovementioned other departments ilso added to meet the public deminds They not only undertake every description of cycle repairing but also import and deal largely in all kinds and makes of cycles and accessories of which a large stock is always kept in hand. Other branches of mechimeal work are also undertaken In the carriage works every description of carriges are built is well is repured. The motor garage supplies the public vith motors on har motor car and evel repairing is undertaken and motor accessories are stocked. In the livery stables excellent rubber-tyred Victoria turn-outs are hired out to the public at all hours of the day and night These departments are personally supervised by Mr F 1 Peters assisted by Mr John Peters on charge of the workshop and by Mr U S Johns the Manager, in charge of the office. The firm have branches at Mysore and Agencies at Calicut and Lumkur and their business connections are extended over the whole of Mysore Province and Southern India

Mr Frederich Theodore Peters the sole proprietor was born in 1877 and educated at the High School Mangalore In 1805 he joined the firm of Messrs C B Oakeley & Co and served an apprenticeship of three years He then joined Messrs A S Andrews & Co, and rem uned with them for a period of three years Having thus gained a practical experience of cycle and mechanical work, he started the cycle repairing shop, with the kind help of a friend, in 1901, the nucleus of the present firm is the public demand and confidence increased, owing to the excellence of the work turned out, it was found necessary to extend the premises Mr Peters is an active member of the Brigalore Rifle Volunteers, and of the Bangalore Frades Association

Mr M PURUSHOTHAM AN-NANDA GIRI GOSWAMY, Banker, Contractor, and Merchant, Doddapett, Mysore The firm was founded about a hundred years ago by the late Mr Narashim Gill General banking is the principal business of the firm which is carried on in purely Indian style, and the operations extend to all parts of the Mysore State as cell as in Mysore

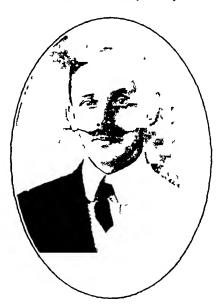


Mr. M. P. A. Cha Gosham

City itself. They do a large business in money advances to suitable clients the usual rate of interest being 12 percent per unum. They are also builders and take up building contracts for the Public Works Department of the Mysore Government, is well is for private firms and individuals. They have ilso i considerable business in general merchandise importing from Kashmu, Benares and Amatsur, They also cloths, shawls etc hold the contract for the supply and sale of toddy to the city of Mysore, and since they took up this business the Government of the State have benefited to the extent of some Rs 40,000 in 10venue and the business is more efficiently managed than an former years Mr M P A Giri Goswamy was born in the Punjab in the year 1881 and is the son of Vedamuits Sukhadayal Misra, a Saraswith Brahmin and a direct descendant of the great reformer Sankacharya who was the founder of the Adyrta System of Philosophy For the teaching and propagation of this Philosophy four "mutts" or monasteries were established by Sri Sankacharya at four important

man "Telephone House," Rangoon This Company, under a license from the Government of India works the telephone service in the towns of Rangoon and Moulmein Operations with these services were telephone first started in the year 1881, and for years the service was carried out with overhead single-line circuits Owing however to the expansion of the system, it was decided by the Company to lav all its wires underground, and the vork was commenced about two verrs ago. This conversion is nov rapidly approaching completion and very shortly all aerial vires will be done away with and a double wire underground service established throughout the The Company, installations from its head office in London controls the telephone services of Egypt, India, Burma Straits Settlements, Vauritius, Hong Kong, and other countries. The capital 15 £500,000

Messrs CHAS II PARSONS & Co, Importers of Hardware, Metals and Machinery, Madras This business was established in the year 1901 by



Mi C II PARSONS

Mr C H Parsons who carried it on alone until 1908, when Mr Wm J More, a gentleman of large experience in business in Madras, was admitted a partner. The firm do a considerable business in machinery mining and mill stores, metals and hardware of all descriptions They represent Messrs Thos Firth & Sons, Ltd., of Sheffield, England, manufacturers of Steel for all purposes, Forgings, Shoes and Dies etc., in whose specialities they have established an important trade. They have a good connection in the supply of wire ropes etc. for mining and other purposes, flexible steel wire ropes and wire ropes of all descriptions, in which they represent the well-known firm of manufacturers, Messrs Allan Whyte & Co of Rutherglen, Glasgov, for v hom they are sole agents. In addition to this trade they undertake clearing and forwarding business and act in that capacity for Messis Whiteaway, I aidlaw & Co, and the Indian Muminium Company I td Generally their business Madras connections in South India are ex-Mr Charles tensive and valuable H Parsons, the senior partner in the firm, has been a resident of Madras for some ten years cime from Leicester, England, and was formerly connected with the late firm of Leighton & Co, General Merchants of Madias

1 Mr BYRAMJEE PESTONJEE, Contractor, \agpur, Central Provinces Born at Neemuch, Central India, in the year 1872, and educated at the Anglo-Vernacular School in that city He obtained a good knowledge of English, but left school early and proceeded to Nagpur in the year 1889 to join his father, who was in business as a contractor at Three years later, in that city 1892, he went to Berar to take up certain Public Works contracts, which he executed satisfactorily He was engaged in these for two years, and at the expiry of this period he went to Rupur where he engaged in railway contracts. In 1895 he established the firm of 'Byramjee and Brothers' at Rupui, to deal with Railway and Public Works contracts In 1897 he added to this business a shop for European goods and a coach-building and cabinet-making workshop, taking in his two brothers as partners, besides another partner who provided neces sary capital In 1898, the style of the firm was changed to "K

Byramjee & Co'' During the year 1897 this firm was engaged in heavy famine relief works, and in addition worked the Kawardha Forests, turning out beams and sleepers, with



Mr BYPAMJEE PESTONJEE

which they supplied the Bengal-Nagpur and Raipur Dhamtari Railways In 1899 the financial partner was relieved of his interest, and Mr Byramjee and his two brothers remained the sole proprietors of the business In 1900 they secured the contract for working the Bindra Nawagar Forests which is still being carried on by the firm This partnership between Mr Byiamjee and his brothers was continued with mutual profit until the year 1907, when it was dissolved by mutual consent Mr Byramjee's brothers carried on the firm under the old designation, and Mr Byramjee established on his own account a new concern under the style of "Byramjee Pestonice & Co" At this period Byramjee turned his attention towards the mining industry and secured the services of a highly qualified Mining Engineer He then started prospecting for manganese and other minerals in the Central Provinces In 1906 he had been approved by the Chief Com missioner as a suitable person to be granted prospecting licenses M1 Byramjee succeeded in locating several deposits of manganese,

advanced him to the management of the Lahore branch in 1803, and subsequently give him a partner

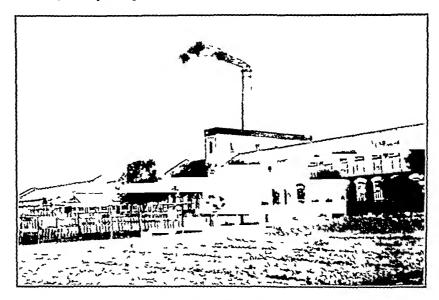


Mr Ton Bliss

ship Mr Cotton is a prominent member of the Simla Volunteers

The PULGAON SPINNING WEAVING IND WINLFICTUR-ING Co, Ld This Company was inaugurated in May of the vear 1889, when certain leading gentle-men of the Nagpur and Wardha Districts collaborated for the purpose of starting mills in the vicinity The chief promoters of the enterprise were Messrs Narayan Ramchandra Sohoni, R B Bapur Rao Patwardhan, R B Bharge Raq Gadgil, Messrs Keshao Rao W Kayley and Krishna Rao Phatak Pleader It was decided to form a limited company with a capital of Rs 5,00,000 divided into one thousand shares of Rs 500 each and the project was accordingly carried into effect Mr Isaac Alcock, of the well-known firm ot Messrs Alcock Ashdown & Co of Bombay, was appointed Consulting Engineer to the new company Modern machinery for spinning cotton yarns was procured from Messrs Platt Bros & Co, of Oldham, Eng-land, and in the year 1892, all preliminaries having been completed, the futors commenced operations. At the outset the futors vas brought into vorl with 10 000 spindles and spinning operations only were curried on until the year 1002 when a verying shed with about 102 looms vis added and veiving vis stirted. From time to time the plant has been extended until it the present time there are 15,000 spindle in opera tion. Situated in the heart of the cotton producing district the riv material is abundant in the nearly bourhood of the factory. The mills spin from No. 6 to No. 60 from cat. ton grov n in the Wardh cand Nappur districts and Berar No foreign yerns are utilised in the verying operations the spinning mill pro-viding all that is required. The management of the mills is entrusted to a 5mb Committee consistant of four of the Directors of the Compury, which is reconstituted year by year. This Sub Committee give their services free and have through out the Company's existence been doing the work which is cirried out by Agents in the case of Bombay Mill Companies. The actual working of the factory is supervised by a Minager who is r passed student of the Victoria Jubilce Technical Institute of Bombry The whole of the staft in cluding the Spinning Master and his

Assistants the Engineer and In-Asset into the Weething Matter and his 1 set ent, and it of the Secretary and Manuer or Hindu The policy of the Directors of the Company has been to employ as fir i po ible student who have preof out of the Victoria Jubile-Ichmed Institute of Bombat In the extensive ground attached to the Luctory the Company have provided quarter for certain of their officers and also cottages for i like number of their operations. A cotton ginning factory has been not ulded to the other recourses of the mill Mo a dve home where they die their on viens and a bleaching plant on a moder ite scale. The eatire output of virus and cloth is disposed of vithin the Central Provinces and thus the concern is a purely syndeshi thur of the right kind. The operitions of the Company have met with striking success. The whole of the expital is paid up and during the years the mills have been in operation regular divide ids ranging from four to tvelve per cent have been paid and as a matter of fact the whole of the capital has been returned to the shareholders in the shape of dividends and at the same time a deterioration and reserve fund to the extent of Rs 500 000 his been built up



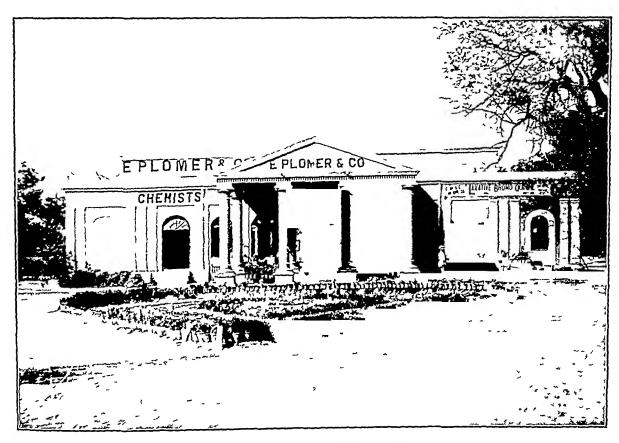
THE PULGION MILLS, NACLUI

These are known centres in India by the names of Joeshy-mutt, Goverdhan-mutt Suda-mutt and Sringery-mutt Mi Purushotham Annada was educated at Benaus and Mysoic and started in business on completing his education. He has landed possessions on which he pays an assessment of about Rs 4,500 annually in the Mysore district only He owns about 60 houses in the City of Mysore, bringing in a rental of between six and seven hundred rupees. He takes great interest in all matters affecting the State of Mysore He is also i landed proprietor in Bangalore and the Kolar Gold Fields, and has branches of his business established at Kolar Gold Fields Benares Poon i and Conjevaram

Messis E PLOMER & CO Chemsts and Drugg sts, Manufacturers of Acrated Waters and General Merchants, Labore and Sanla The Sanla branch of this well-known business

was founded by Mr E Plomer in pre mutiny days. He carried it on for many years, till in 1873 he sold it to Mi T Bliss, who had originally joined him as an employee Mi Bliss added the Lahore branch, which he bought from the Punjib Iriding Company in 1877, who had obtained it by purchise from Messis Peake, Allen & Co, the original founders The firm under the able management of Mr Bliss and those now asso cirted with him, have developed the largest business as retail and wholesale Chemists in the Punjab Messis E Plomer & Co have been appointed contractors to the Civil Vetermany Department, and are the largest importers of veteri nux instruments and appliances in India. They have also secured the contract for the supply of me dienes and instruments for all civil hospitals and dispensaries in the Punjab

Mr THOMAS BLISS, of Messrs E Plomer & Co, was boin in Morayshire, Scotland and served his apprenticeship to a chemist in Nairne He left England in 1863, and worked his passage to Calcutta in a sailing ressel as a sailor before the mast, deciding to take his chance of employment on arrival He obtained a situation with Messrs Scott Thomson & Co Chemists of Calcutta, and served with this firm till 1869, when he joined Mi E Plomer in his Simla business. After four years he was able to buy out Mr Plomer and acquire the sole interest in the firm. In 1877, he added the Lahore business by pur chase from the Punjab Trading Company In 1899, he took Mi William Cotton into partnership This gentleman had joined Mr Bliss as an assistant, while still a lad, in the year 1883 His steady application to business won the confidence of his employer, who



Messis E Piomir & Co's Primises, Lahori

to a Cilcutti newspaper this he was banished from Burmese territory and had to trunsfer his business to Moulmein Mmost immediately after the annexation however one or more newspapers were started in Rangoon This is the more remarkable is it was then a very small place compared to Moulmein and no one could have foreseen that the rice trade of Run goon would grow so rapidly as it did With security of life and property established under the British Gov ernment the extensive rice fields of the new province were rapidly brought under cultivation by the inhabitants and by numbers of the Burmese King's subjects who managed to escape icross the frontier and to settle with their families in British territory only record now extant however of the earliest journalistic attempts in Rangoon seems to be the follow ing extract from a private diary kept by Mr John Mc Arthur who was a contributor to the Rangoon Gazette from its start in 1861 to his death in 1904. In the vert 1853 he wrote. The Rangoon Chronicle was the first newspaper in Rangoon. It was started by Mr H W Lewis 3 lavyer from Moulmein who dabbled in news papers there. It was edited by inyone who chose to write Fowle once inveigled me into writing for it'

This paper "edited by anyone who chose to write," seems to have existed for some years, but it had certainly disappeared before 1861 Then the only newspaper in existence was the Rangoon I times which had been started in 1850. Its editor was Dr Dawson who is said to have been connected in some way with the American Baptist Mission This gentleman's editing of the paper was so distasteful to the mercantile community that they held a meeting to consider what was to be done The following gentlemen met and decided to start a paper which would give expression to the views of the mercantile community—Mr Tait, Agent of the British India Steam Navigation Co , Mr George Bulloch, of Messrs Bulloch Bros & Co, Mr Hilton, of Messrs Mohr Bros & Co, Mr John Barlas, of Messrs Todd Findlay & Co, and Mr Maleus Agaber Mes is Wallree Brothers showed their sympathy by securing for the new paper a small press which had formerly been used for in advertising sheet The Rangoon Gravette vis thus started by the leading members of the mercantile community The first number appeared on lucsday 5th March 1861 Italis only clittle more imbitious than the Montnery Chronicle of 1817 being a four-page cross notific published tyree e veel George Currin in idvocate vathe first editor and Mr. I. Richard. son the first minuter. Mr. Currin and Mr. McArthur contributed most of the matter for the airst fer numbers but others gradually cume forward. Mr. Richardson Mr. Verrall, Mr. Lut, Mr. Bulls and the Cantonment Chaplan, Mr Poynder The Commissioner Sir Arthur Phayre contributed some articles on cotton cult vation ın Burma

In the first fev Acus the records throw very little light on its history Mr Richardson left soon after it was furly started and Mr Caddy became both editor and manager. He was also a share holder Mr Currin retuning i pecuniary interest is well and continuing to contribute articles for the paper. Everything seems to have prospered until Mr. Ciddy's death when the whole control fell to Mr Chanter who had served under him This gentlem in sudden disappearance in 1867 or 1868 left the proprietors in difficulties financial and otherwise Mr. Mexander Gair then took over the whole concern but in 1869 he had to leave. He sold the business. including machinery and stock to Mi E G Man a barrister who bought it "in trust for those concerned". The names of these are not disclosed, but in 1871 Mr Man sold the business on their behalf to Mr Chules Pascal gentleman, however, had borrowed part of the purchase money, and not being able to repay the loan the business was sold by auction on 31st January 1872, the buyers being Messry Balthazai & Son, who transferred it to Mr Malcus Agabeg, one of the original founders. He died very shortly afterwards, and in January 1873 the business was

transferred by his executor to hibrother Mr. P. ul Agabe, to chore it had been left by the vall of Mr. Maleu Arabic Iron Mr. Paul Arabez the busine payed into the hand of a partner-up of A prontouroty hony ende ver One of the latter Mr. I. D. M. teh II. burster who edited the paper bought out one of the other hare holer and some thares yere albought by Mr John A Hamas. I ventually an August 156) Mr. Humas became of propri ter by the purchase treat Mr Mitchell executor of his removant interest in the burne. For the vers Mr. Hinnix romand the sol propertor but on 1st. December 188, he old a half shar to Mr. David M Gray

On a taluly than Mr Grey bought out Mr. Hinnix and identical the pre int proprietors. Mr. John Stuart. Mr I rank McCarthy and Mr V. J. Marrano to a shore in the business Mr. Stuart had virten constantly for the paper from the end of 188, Mr. Mel with had been the editor from 1889 and Mr. Mariano had been in the service of the press from 1871 For two years Mr. Grav continued to hold a share in the business, though he lived in Europe and left the management to the three jumor partners. On sist July 180, in irringementy is made to buy out Mr. Gray, the other three partners toking over the vihole business from that date. Mr Grav died in 1896 On 1st December 1907 three new partners were admitted Mr. Herbert Smiles who had been on the editorial staff for three years Mr G H M Kelly and Mr Frank Stuart is ho had been in the service of the press for fourteen and for six years respectively The Rangoon Gazette has grown with the progress of Burma and the four-page crown folio published twice i week of 1861 is now aduly paper of 24 to 2 pages crown size. About thirty verrs ago the general printing business known is the British Burmi Press was bought by the proprietors of the Rangoon Gazette and has been worked by them ever since Burmese paper, called I he I riend of Burma, was started by Mr. Hannay and it is now a daily paper of eighteen pages royal folio size The one small press of 1861 is now represented by 28 presses ringing

They have also established a provident and gratuity fund for the benefit of their operatives, which is altogether separated from the mill property, though remaining under the control of the Board of Directors. A scholarship to aid technical education has also been established by the Board of Directors. At a general meeting of the shareholders held on May 8th, 1904 the following resolution was adopted.

ed unanimously —
"The General Meeting unanimously resolve to recognize the ser vices rendered by Mr Krishna Rao Phatak, one of the Directors of the Company since the formation of the Company in 1889 The services which were rendered at great sacrifice of his valuable time and free of charge, and which have mainly brought about the present good condition of the Mill, it was decided that a permanent scholarship carrying Rs 20 per month be established from the Mill fund and a student be sent for technical training to the Bombay Victoria Jubilee Technical Institute or to any other place the Board may choose The fund set aside on this account to be called 'Krishna Rao Phatak Scholarship Tund '

In further honour of Mr Krishnai Rao Phatak, his portrait, which was painted at a cost of about Rs 250, has been hung in the main offices of the Company at Pulgaon a town possessing a Railway Station, about 60 miles from Nagpur, on the G I P Railway

Mr JULES RADESCO, Manager of Messrs G D'Angelis & Sons "Hotel D'Angelis" at Madias Born and educated in Austria, Europe Mi Radesco has more than twenty years' experience in hotel business of which he has acquired a thorough knowledge, and first class experience in many of the most important establishments in Like so Europe and America many of his colleagues who are managing Hotels in various parts of the world, Mr Radesco has risen to the position from the bot tom of the ladder and has thus obtained a good knowledge of every department He finished his ex perience in a subordinate capacity in I ondon as a superintendent at the

"Trocadero" in London, which is generally considered to be the largest and best managed restaurant in the world. He was employed at the "Trocadero" for over four years from 1900 to 1905 and left it to take up managerial duties at the "Grand Hotel Weber" at Antwerp Belgium, and the "Hotel Metropole" St Moritz Switzerland at both of which establishments he was most successful. In 1907 Messis. D'Angelis &



Mr JULIS KADISCO

Sons secured Mr Radesco's services as Manager to their "Hotel D'Ange lis" at Madras and he came to India in the same year. He has successfully promoted the reputation of the Hotel as one of the best equipped and managed establishments in the East.

GAZETTE The RANGOON Although the Rangoon Gazette was only started in 1861, it was under conditions so unlike those of the present day that to understand its early struggles one must endeavour to realise something of the early history of Burma under British rule After the first Burmese war, which began in, 1824, the Indian Government annexed the provinces of Arakan and Tenasserim The former was within easy reach of India, but Tenasserim was remote and isolated The communication with Calcutta was by small sailing

vessels and so was infrequent and uncertain. The British troops in Moulmein were separated only by the river from the Burmese garrison in Martaban, and the timber traders had to reckon with the vagaries of Burmese officials beyond the border Nevertheless the trade in timber. on which the welfare of Moulmein depended, was carried on with success, and in time the enterprising inhabitants began to build ships in considerable numbers. The European residents spoke of themselves as "colonists" and seem to have had many of the characteristics of frontier colonials The Moulmein Chronicle, the first newspaper in Burma which was started on 15th April 1837, and carried on for several years, a small four-page demy quarto, published once a week, gives a vivid impression of the life led in those remote days

The second Burmese war of 1852, and the consequent annexation of Pegu, bringing the whole coast line of Burma under British rule, altered the conditions very material Moulmein was no longer an isolated outpost, the power and still more the prestige of the Burmese kings were greatly reduced, so then vagaries were no longer the constant menace they had formerly been to the small British "colony" in Moulmein It must be remembered, however, that until the annexa-tion of Upper Burma in 1886, British Burma remained only a coast line, about a thousand miles in length but of very limited breadth All country behind that coast line continued under a government which gave no secur ty of life and property, no communications, and no encouragement to development of its resources so there could be no adequate growth until British rule was established over the whole country British Burma did grow as for as a mere coast line could grow, but the real advance of the country as a whole did not begin until after Upper Burma had been annexed and lawlessness and anarchy had been put down in it

While Rangoon remained under the Burmese Government no one of course, was fool-hardy enough to start a newspaper One Rangoon merchant, Mr Crisp, did venture to criticise the doings of the Burmese Government in a letter the wharfs and in general undertake all branches of the stevedoring business. They are very large employers of labour giving work from time to time to so many as 3,000 to 4,000 men. The present partners of the firm are Captain Richard Boswell Rushall and Mrs C. Swaries. Captain Rushall is an old officer of the Irrawaddy. Flotilla Company, with which concern he was connected for a period of 20 years having been for fourteen years in command of different steamers belonging to that Company. He resigned the Irrawaddy service for the purpose of taking up his present business.

MANECKJEE FRAMJEE HOR-MUSJEE SETTNA Merchant Waudby Road, Bombay Born on June 8 1867 and educated at Proprietary High School, Bombay where he pursued his studies under the famous Paisee Educationalist, Mr Hormusjee Jehangir In 1888 he passed the Matriculation Examination at the Bombay University He attended a course of lectures in languages and Roman History in St Navier's College



Mr MANECKJEE I H SETTNA

under the well-known Reverend Fathers Hamilton and Bocham He commenced his career as a business man in the year 1896 Mr Settna is a Director of the

Hindustan Pressing and Manufacturing Company, Ltd., and has acted as Chairman of the Company on various occasions. He is also one of the Agents for the Company. He also holds the position of Director in the Edward Manufacturing Company, Ltd. and is Chairman of the South India and Mysore Manufacturing Company, Ltd. of Bombay. He is a member of the Society of Science, Art and Literature, London, and became a member of the Royal Society for the encouragement of Arts Manufactures and Commerce in March 1897.

Messrs SEYMOUR & Company Ship-Chandlers, General Merchants and Contractors, 6, Strand Road Rangoon Burma This firm was



The lite Mr T N SELMOLI

established in the year 1886, by the late Mi T N Seymour The principal business of Messrs Seymour & Co is that of ship-chandlers, and they supply all kinds of stores and requisites for the ship ping trade. They also carry on a considerable business in engineers' tools, metals paints hardware and mill stores, and lamps for mineral oil and electricity. They undertake Marine and Port Commissioners' contracts, Public Works Department contracts for the Government of

Burma, and also do a large commis sion business of all descriptions Messrs Seymour & Co have agents to effect their business in London und New York The sole proprietor of the firm is Mrs T N Seymour Mr Charles Percival Seymour, Manager of the firm of Messrs Seymour & Co was born in Burma in the year 1876 He was sent to India for his education which he received at St George's College, Mussooric At the early age of 17 while still at school Mr C P Seymour had the misfortune to lose his father, who died in the year 1893 Despite his youth he returned at once to Rangoon and entered the business which he carried on with ability, gaining his business experience and commercial education at the same time. By his keen enterprise and energy he has successfully managed the business of Seymour & Co, for the benefit of his mother, Mrs T & Seymour, and family ever since

Messrs SIMPSON & Co Carriage Builders, Harness-makers, Billiard table Manufacturers and Motor Engineers, Madras This firm in which the present partners are Mr George Underhill Cuddon and Mr Percival Bligh, was established in Madris by Mr Simpson in 1840 Since those days of small beginnings, the progress made by this firm has been continuous and rapid. It is now one of the largest factories for building carriages in the East, and it takes its position among the leading European business enterprises in the Southern Presidency with Head Office and Factory in Wadras and Branches and Agencies in Hyderabad Rangoon, Bombay, Penang and Singapore The present partners took over the business in 1898 and both being eminently practical men, great strides in expansion have taken place during the past ten years, and their cairiages bearing the well-known name of this firm are now to be found as far north as Cashmere and as far east as Hong-Kong The firm the Charge Builders by special warrant of appointment to His Majesty the king-Emperor in India, also to H H the Nizam of Hyderabad, the Maharajas of Mysore, Travancore, and most of the Ruling and Feudatorie

from platen machines to double toyal cylinders. The press has its own type foundry and employs over three hundred and fifty men besides the usual miscellaneous printing a considerable amount of business is done in publishing vernacular and Anglo-vernacular books and maps for use in the schools of Burm 1 Early in 1902 1 Burmese newspaper the Mandalay Limes and printing business in Mandalay were purchased and me still run in connection with the Rangoon Gazette In the press in Mandalay a number of vernicular books are published

Babu BEEPIN KRISTO ROY Stevedore and Nival Contractor Calcutta as the son of the late Balm Krishna Kanto Roy He was born m 1853 at Dasghara a village near Farkeswar his family being one of the oldest and most respected gostipotis in Bengal and lineal descendants of Natian Das Pal Chowdhurt who used to we'll gar lands as honories distinctions on ccremon il occasions in days of voic At in early age Beepin Kristo Roy came with his father to Calcutta when he received his education first at private schools and later at the Hindu schools. While vet in his teens he joined his fither in his business as Stevedore and Ship's Banian and parents when he was twenty-five veirs of age the took sole charge of

the firm which he has since con ducted with minked success now owns several Zemindaries in the districts of Hooghly and Burd-



babu billin Kristo Roy

win besides extensive landed properts in and out of town he performed the Sradh ceremony for his late paients. Mr. Roy spent upwards of a lakh of rupecs in feeding the poor and the giving of alms and presents to Brahmms and

losing both Adhy spocks throughout Bengal

DASCHARA GALDEN HOUSE OF BABU BETTEN KEISTO KOY

Is a Zemindar he is respected by his roots and during the years of scarcity that have of late prevailed in Bengal he has remitted large amounts due to him by his tenants, in order to help them in their ne-He is known throughout CLSSITE the district for his charities and does much to relieve the suffering He has founded a minor school at Puttuldanga and a charit ible dispensary and \tithsala in his native village where he owns i palatial residence and celebrates ill the Pujas with much ceremony It the same time as a keen man of business he has acquired much wealth through his connexion with the merc intile marine and has been successful in his investments. He was contractor and sole stevedore for Messrs Ralli Bros for nearly twenty years besides being emploved by the Harrison Line the British India and the China Mail Steamers At present he is emploved by the Bucknall I me and ilso secures a large share of the business of outside lines His offices are at 4 Commercial Buildings (alcutta and in his business he is issisted by his eldest son Mr B Roy, and his brother-in-law Vi 1 C Ghosh

Messis RUSHALL & Co, Stevedores and Contractors, Rangoon This is an old established business having been originally constituted in the year 1864 by Mr Antoine Swaries This gentleman carried on the affairs of his firm until his death, which occurred in the year 1890 During the twenty-four years during which Mr Intoine Swaries conducted the business he enlarged its reputation and founded it firmly as a responsible and reliable firm At his death Mis Swaries continued the business, paying personal attention to its affairs, assisted by Mr John 1 Gordon At his death the business was carried on by four partners and being found unsatisfactory was inutually dissolved This being satisfactorily effected the business was started afresh in April 1907, in partnership with Mrs Swaries, under its present style and title The firm undertake the loading and discharging of vessels of all descriptions, disburse ships, supply labour for the Port Commissioners and to

work as such in March last, the Madras Mail said that "in this capacity he proved himself level-headed, shrewd and devoted to the interests of his constituents"

M1 Smith is a great lover of sport, he is a prominent member of the South Indian Athletic Association and the Madras Race Club, being an udent supporter of all institutions that have for their object mens sana in corpore sano He has been actively associated with volunteering for many years Enlisting in the Veilgherry Volunteer Rifles at the age of 14, he is now the semor Captain of the Madras Volunteer Guards—the doyen of Volunteer Corps in India An excellent Corps in India rifle shot himself, Vi Smith has infused his personality in the Company he commands, so that 'B,' or the Trades Company, now occupies the foremost position in the Regiment in rifle shooting He is a well-known figure at meetings of the Southern India Rifle Association at Bangalore to which he has taken several teams of the M V Guards, and the large number of medals, cups and other prizes he possesses is ample testimony to his prowess Mr Donald Smith proceeded at his own expense to England on the occasion of the Coronation of H M King Edward VII and took part in the various military manœuvres and other exercises that formed a part of the ceremonies connected therewith Some four years ago Mr Smith while at Home captained an Indian Rifle Team which competed at Bisley, shooting in it himself. The team gave a very fan account of itself, gaining third place on the list for the Kolhapore Cup and finishing just 15 points behind the Mother Country, while some of the members won prizes in the individual contests

Mr Donald Smith is a zealous Mison having joined the Fraternity about six years ago in Lodge Pitt Micdonald of which he is at present Junior Warden

Mr Donald Smith holds the honourable position of Sheriff of Madias, which proud distinction was conferred on him by H E Sir Arthur Lawley, Governor of Madras, in December 1907 and reappointed to the same office in 1908 When we recall the fact that about ten years ago previously this unique

office was held by his father, it will be evident that the son is following in his father's footsteps and worthilv maintaining the family traditions For the first time in the history of the Shrievalty Mi Smith inaugurated a Sheriff's Banquet which was held on 31d March 1908 and at which he entertained H E the Governor, the Judges of the High Court, Members of the Council, and a host of other prominent citizens of Madras His Excellency Sir Arthur Lawley, in proposing the toast of the "first Citizen of Madias," made a highly eulogistic speech in which he referred to the occasion as a "most unusual" one and to the Shrievalty as being "held by one whose main characteristic has always been a sense of public duty " In thanking Mi Smith "most sincerely" for the 'splendid hospitality extended to himself and those present, His Excellency wished him "long life and prosperity and every success, not only in his present office but in the part which I know he is destined to play as a leading Citizen of Madras

Mr C SOON THIN, Sole Proprietor, Burmese Curio Depot General Merchant, Commission Agent and Contractor, Dealer in, and Manufacturer of, Burmese wood carvings silverware embroidery, Burmese silk and sundry curios and precious stones, Mandalay Soon Thin commenced business at Mandalay in 1903, when he opened the Burmese Curio Depot, doing a large business in Burmese curios which he collected from all parts of the country He also carries on business as Contractor to the Burma Mines, Railways, and Smelting Company for the supply of food-stuffs and limestone, and in this department he gives employment to about 500 men He also does commission work as an agent, in which capacity he does a large business in timber with Jardine, Skinner & Co, Calcutta and Best & Co and King & Co, Madias Mr Soon Thin also acts as Managing Agent to the Oo Doung Saw Mill of the Burma Timber Trading Company, where some 50 hands are employed under his direction The other agencies which he controls are the Royal Insurance Company Ltd the State Insurance Co, the Standard Life Assurance Co, the City of Glasgow Life, and the China Mutual Mi Soon Thin was born at Moulmein Burma, where he was educated He served with Messrs Thos Cock & Son as Head Accountant and with the Bombay-Burma Trading Corporation, Ld, as Head Book-keeper, prior to setting up in business for nimself

SOUTH INDIA & MYSORL MANUFACTURING COMPANY, Ltd Agents Messrs Nadirshaw H Belgaumwala & Co, Con's Building, Hornby Road, Bombay The Company carry on business as Cotton Pressers and Ginners



Mi A H BLLGAUMWAIA

Ice and Aerated Water Manufacturers and Dealers in New and Second Hand Machinery They own a Cotton Ginning Factory at Annigeri and another at Yelvegi, two Cotton Pressing Factories, one at Hubli and one at Divargeri Two Ice Factories one at Hubli and another at Deolali, where Aerated Waters are also manufactured Their Machinery Mart is established at Hubb All these concerns are running successfully and create good profits for the Company The above properties which have been acquired by the Company were originally established and brought into successful working order by Mi Nadirshaw H Belgaumwala He was born and educated at e Chiefs of India At various Exhibitions both in London and the East they have been awarded Gold Medals and Diplomas, and it is a fact worthy of note that the firm were among the Exhibitions at the First International Exhibition held in London in 1851, when they were awarded a Gold Medal

A walk round their extensive factory which covers 5 acres and where upward of 500 hands are employed, as quite a revelation. Exery detail of the work is carried out on the premises and it is believed to be the only factory in the world where every part of a carrage is made by native labour of course under the supervision of experenced.



Mr. C. M. Gebbos

Lurope in assistants in each department. Here, one finds the linest silk carriage laces being made on native looms carriage springs of ill sorts being made, door handles and all kinds of mountings being cast in the Foundry carriage indimotor lamps being made in the lamp factory locks, hinges, etc in the fatters' shop, and silver plating in the plating department.

Much of the success attained by the firm is due to the judicious use of timbers indigenous to the country, and suited to the chimite their mahoging for panels is imported direct from South America while woods are also drawn from the well known forests of Mysore, Ceylon, and the Struts Settlements

The Billiard table department has done much creditable work, and the designs of various tables with the claborate carvings of the Wadrassi are very handsome. A great speciality is the Billiard cloth which is specially manufactured by a West of England firm for Messis Simpson & Co. and it is of the finest quality.

Messes Simpson & Colivere the first to scrously take up Motor Engineering and this department sunder the direct supervision of an expert engineer. They have always a large number of cars on view. In virous Indian trads and competitions, their reputation has been enhanced by vinning gold medals and sliver cups, and by the cars they represent which show that their selections to be reled upon under Indian conditions.

Our visit left a very strking impression as it shows to what efficiency the Indian artisan can atten under competent supervision

Mr W ALTERDON ALD SMITH Captain Madras Volunteer Guards Managing Director of Messis W.E. Smith & Co., I in ted. and Sherift of Madris - Mr. Smith viss born in Octicimund Midris Presidency n 1865 and comes of an old and highly respected from by a hose fither Mr W I Sm the founded the firm which be us that name at Madris and whose members have established for themselves a wide reput it on for business expre ty and enterprise. Mr Smith received his early education at St. Andrew's School and the Doveton College Midris indlater having qualified it the Midris Medical College, entered the business of his life is i Chemist and Druggist's assistant it the cirly igo of 14 m one of the branches of his fither's busi ness. By dint of perseverance and hard work he gradually rose step by step in his profession till ifter some years he was able to take his place in the firm thong with his father and brother the business of the firm in the meanwhile had been slouly but surely advancing in size and gaining popularity. Brinches were established in different parts of the city and these enlarged from time

to time The Head Office on Mount Road. Madras was eventually found quite inadequate to meet its requirements, and the erection of a building on more modern and up-todate lines v as considered necessary The construction of the present commodious and handsome building vas to a great extent due to Mr Donald Smith, he having by this time become a partner in the Shortly ifterwards it business was considered necessary to convert the firm the business of which had by this time reached large proport ons, into a limited liability company This was done and Mr W Donald Smith with his brothei Mr W Traser Smith became



Mr W D Swith

Miniging Directors. It is unnecessify to follow further the course of the now well-known furn of Messis W. F. Smith & Co., Ltd. Suffice it to say that it stands unity alled in Southern India as a Pharmaceutical agency, and is, it is believed, second to none in all India.

Mr Donald Smith is a very busy man, but somehow manages to find time to devote to public matters. Besides being a Director of the Equitable Life Insurance Company, Mr Smith is connected with many institutions in the City of Madias in various capacities. He has been a Commissioner of the Corporation of Madias for the past nine years, and in a reference made to his

elected A R I B A after passing the examination In 1902 he went to Singapore to Swan and Maclaren and thick years later joined Wi

Messis 1111, 5015 à Co, Merchants 26 Merchant Street Rangoon Burma Established in the vert 1905 is a branch office of the same well known firm in Bom-The business of the firm principally consists of trade in rice and Japan silks and Bombay piccegoods They are also exporters and importers of various kinds of general goods and though lately established the reputation of the head firm is a guarantee of success of which they have already resped

The mm of THACKLR, SPINK & CO was founded by Dr William Thacker in the year 1819 thirtyeight vers before the Mutiny In those days trading, apart from the individual appointment of profession was the rule rather than the exception Dr William Thacker was in no way different from his compeers, and he accepted an agency from Messrs Kingsbury, Parbury, and Allen to sell in India their publications which

were of Oriental interest business was started in premises adjoining the present Great Eastern Hotel and was at first known as St Andrew's Library

The bookselling and stationers business thus started grew very rapidly and after some years Mi George Parbury was admitted a partner In 1830 Mr William Spink, a nephew of Dr William Thacker, Joined the business, and his great popularity and ability caused a remarkable expansion In Aimy Agency was stirted under the style of W Spink & Co and branches of the main busi ness were instituted in Bombay and Lucknow The last named venture was destroyed in the siege, but a large part of the stock was brought out a few days before on camels and taken to Calcutta this curious convoy, singularly enough, getting through without mishap of any kind The branch in Bombay trading as Thacker, Vining & Co was destroyed by fire in 1677 it was subsequently

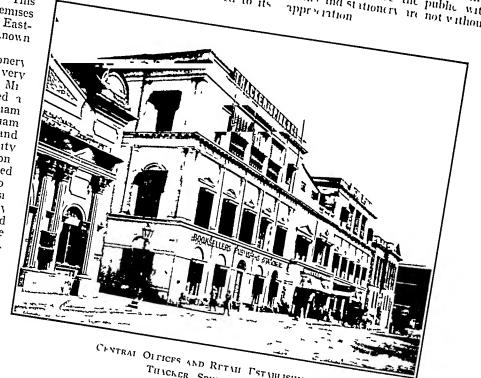
floated as a company under the style of Ihacket & Co Itd and his co continued to the present time, paying handsome dividends and doing i steadily increasing trade. The Army Igenci was in 1860 tilen over hi Messes V K King & Co. But the great popularity of Thicker Spinl & Co is bankers somer hat modified this transaction is this part of the business vis so Tirgely personal Banking accounts accordingly vere continued and to the present day Thicker, Spink & Co have I considerable banking connection The business of Thucker Spink & Co. at present comprises the well known central establishment in Government Place Calcutta the London house it 2 Ciced I me I udgite Hill, 1 branch it Simla a large printing establishment it to 6 Mangot Lane and the Cheutta Phototype Co_at \sqrt{0} I (rooked I and

The Printing Office irose naturally out of the I in publishing that was undertaken in the early days of the business and is now of large dimensions Viso on account of the need of a special press to cope with the Lidian Directory In 1904 the press having largely outgrown its cipreity it was removed to its

present site at No. 6, Manhoe I in Thacler, Spint & Co Press 15 most thoroughly equipped and is noted for the irtistic nature of the vort

The Cilcutt's Phototype Co. which vis stirted by Thacker Spint & Co. y is the pionecrof photo engraving in India on a commercial basis. It has ale its had the reputation of turning out the very best process blocks for some verts past this branch has been worl ms the three colour process and the tesults have been so much ap precritted that machine after muchine has had to be added and it is the ive difficult to fulfil the very large number of orders oftering

With regard to the main business it is so well I nown that really little need be said about it Thicker, Spink & Co claim to be the oldest and largest firm of retail bool sellers in the British possessions The business has a large and increasing chentele in India Burma Cevlon and the Strate Settlements It has now been in existence for ninety years and from the constantly increasing volume of business it would seem that its efforts to serve the public with books and stationery are not without



CENTRAL OLFICES AND RITHLE PSTAILISHMENT, THACKER SPINK & CO

Bombav where he started in business for himself early in life His beginnings were in a small with very limited capital, but by industry and ability he put together the several business concerns enumerated above In order to develop and expand the business still further Mr Belgaumwala thought it advisable to float 1 Company The shares in the same were quickly taken up and it was not long before the whole of the plant and good will of various concerns were acquired by the new Company, which is now running them with great profit The original proprietor's firm, Messrs Nadırshaw H Belgaumwala & Co, were appointed Agents to the Company in order to secure continuity of policy and obtain the benefit of the experience of Mr Belgaumwala and his staff in the management of the business under its new proprietorship

Messrs STEWART RAEBURN & Co Rangoon This firm was founded in September, 1906, by Mi George Ogilvie Stewart, as Electri-



Mi G O STEWART

cal General & Consulting Engineers
Their chief business in Rangoon
is installation work, and several
extensive contracts for lighting
public buildings etc have been
undertaken They have also equipped several rice mills with lighting

plant They import all kinds of electrical machinery and supplies, and hold sole agencies for well-known houses in their own line at home

Mr George Ogilvie Stewart was born in Stirling in 1879 and was educated at the High School their, which he left in 1895 to enter the service of Messrs Duncan Stewart & Co Ltd London Road Ironworks, Glasgow, as an apprentice engineer, where he remained until While in Glasgow he July 1800 gained a sound practical experience of heavy engineering work, and being on the erecting staff for some considerable time, he travelled abroad on several occasions to supervise contracts then held by Messis D Stewart & Co During his apprenticeship he took courses at the Glasgow & West of Scotland Techni cal College, and thus made himself theoretically efficient in all subjects pertaining to his profession Following on this he went to Edinburgh and joined the service of Messrs D Bruce Peebles & Co Ltd, in order to gain experience in electrical engineering, and finally superintended the laying down of several large power plants leaving Messrs Peebles & Co, he studied for a year at the Heriot Watt College, Edinburgh, and passed in Advanced Engineering, with honours in Electricity Subsequently he went to Man-chester where he assisted Mr Hiller, MIME, MICE, of the National Boiler Insurance Co Ltd, in survey, valuating and consulting work, for a period of two years mediately following on this he proceeded to Buima where he acted as Electrical Engineer to Messrs Bulloch Bros & Co Ltd, for three years prior to starting business on his own responsibility

Messrs CHARIES ST ROMAINE & Company, Army Contractors Wine and Spir t Merchants Grocers and General Contractors and Merchants 8 Merchant Street Rangoon The business was established by the late Mr Charles St Romaine in 1878, at first in a small way as Soda Water Manufacturers and Army Contractors Mr St Romaine, after carrying on the original business for some years added a wine and spirit department. In the year 1894 he closed

the Aerated Water business The firm has agencies for Steel and Coulson's Scotch ale in bulk, Alex Ferguson's P I O liqueum (10 year old) whiskey Red Albion Special blend, Me McDonald's pure whiskey also extra special Scotch Whiskey specially bottled by the firm and carrying their own label, and Cowie's House of I ord's Whiskey The firm carry a general stock of wines spirits and groceries The late Mr Charles St Romaine was boin in Calcutta in the year 1854, and educated at the Bengal Academy in the same city His first business experience was with the firm of Smith, Stanistreet & Co Chemists of Calcutta He went to Rangoon in 1878 as Manager of the Oriental Medical Hall, and took over their Mineral Water Manufacturing Works on his own account in the same year From this beginning he established his present prosperous firm Mi St Romaine died in 1908, leaving two daughters and a son the latter at present studying engineering with the firm of Bulloch Bros

Messrs SWALES & PULLAR Architects Rangoon This business was established early in 1904 by Mr Thos Swales and was carried on by him till 1905 when he took into purtnership Ur Edgar J Pullar ARIBA The firm have erected many of the principal commercial and private buildings in Rangoon among which are Sofaer's Buildings, Stork & Co's Tubantia Buildings Methodist the New Episcopal Chuich Balthazar's Buildings Graham, & Co's offices St Paul's Institute New Masonic Hall the new American Baptist Mission College and many others Mr Thos Swales is a native of County Durham, England, and was educated at the North-Eastern County School He served his articles in Nev castle-on-Tyne, and later on went out to Singapore to the firm of Swan and Maclaren, Architects of that city with whom he remained about seven years after which he proceeded to Rangoon and established himself in business as an architect in that tov n Mr E J Pullar is a native of London and received his education at Dulwich College He serve I his niticles in London, and in 1901 v is

The TRADING COMPANY, late Hegt & Co, General Merchants, Rangoon This firm has experienced many changes of titles since it was originally started about the year 1867 by Messrs W N Hegt & Wytenhorst, for the retail trade under the style of "Hegt & Wytenhorst" Mr Wytenhorst retiring after a few years the firm was continued as "Hegt & Co," the partners being Messrs W N Hegt, Docke and Jones On the death of Mr Jones and retirement of Mr Docke, Messrs Dinckgreve, Mack and Klein came in as partners Mr Hegt died about 1880 or 1881 and his brother, Mr J > Hegt, came out to Burma to take over the deceased partner's share of business, and, Mr Klein having retired, the firm continued under the style of Hegt, Harperink & Co Mr A V Harperink having come in as a partner, Messrs Dinck greve and Mack were allowed greve and Mack to continue their business with their respective shares under the style of Hegt & Co, which, after a period of six months, was altered to Dinckgreve, Mack & Co, and on the retirement of Mr Mack, to Dinckgreve & Co, still later changed to Stork & Co On the discontinuance of the name of Hegt & Co, by Messrs Dinckgreve and Mack, Mr J N Hegt and Mr 1 V Harperink changed the style of their firm to Hegt & Co, Wholesale and General Merchants, from which Mr A V Harperink retired in 1890 to start the present firm of Harperink, Smith & Co Mr J N Hegt admitted his son Mr L M N Hegt to partnership on 1st January 1891, and he himself retired from business about the year 1807 present firm of "Trading Company late Hegt & Co," was then constituted with Messrs J Nordhoek Hegt and T M Verster as General Directors, Mr Fulco Westra as Managing Director, and Mr A F Mathol signing per pro

Rai Sahib C VARADARAJOO MOODALIAR, Contractor, etc., Secunderabad Born at Secundera bad in the year 1855 and educated at the Mahboob College in the same city. His family has been associated with the district for nearly a century. The Rai Sahib has been connected with contracting work all

his life gaining his first experience, on leaving school, with his father, who was a Contractor before him His father commenced business as an Army Contractor, but subsc quently added operations in building, mining, rulway contracts, etc., undertaking the sinking of shafts for mines and similar heavy work The Rai Sahib has carried out many important contracts and is now engaged in building large new prem ises for Messrs Spencer & Co at Secunderabad, and is also carrying out irrigation work for H H The Niz im's Government The Rai Sahib is popular with all classes and is especially respected by the Eu ropean community le in instance



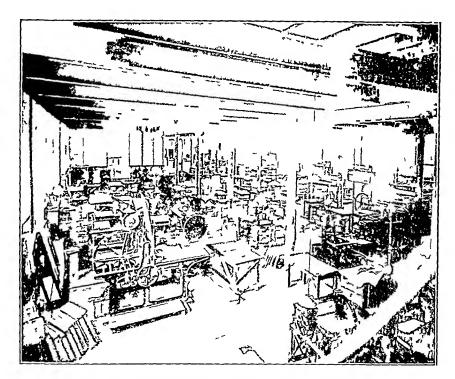
Ru Sahib C VARADARAJOO MOODALIAR

of the good-will entertained towards him, on the occasion of the conferring of the Sanad of "Rai Sahib" in June 1907 a well attended funetion was held at the Deccan Club, when Major-General Hamilton pre sented him with the Sanad on behalf of the British Government, and complimented him on his services in public benefactions as well as in connection with the Cantonment Committee, of which he has been a member for the past twenty years The Rai Sahib is Honorary Secretary of the Mahboob College, and Vice-President of the Girls' Patasalah He is maintaining at his own expense the oldest Hindu Girls' School which was started by his late

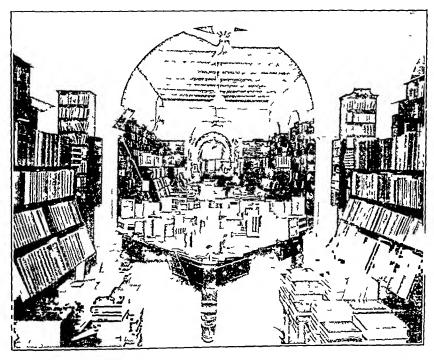
father, who was also associated with the founding of the Mahboob College (High School) an Institution at Secunderabad which teaches English up to the Matriculation standard The College is managed by a private committee and is aided by the Government It was started in the year 1862 as a small school and is now attended by some 650 scholars The College is the largest and most important in Secunderabid. It is under the inspection of the Director of Public Instruction The Girls' Pitasalah is situated in St. Mari s Road, Scrunderabad, and has two branches

Messes PURSHOTAM VISHRAM & Co., Merchants and Agents 14 Hummum Street Fort, Bombay Dealers in all descriptions of Mill and Engineering Stores, English and Australian Tallov, China Clay, Lubric iting Oils, Roller and Clearer Cloths Hoop Iron Steel and Tin Cird Cans, Sizing Hunnel, Chemi-cals for Mill use. They make especiality of sizing ingredients They keep large stocks of all the material, and deal in both their own and agency goods. They are Agents for the following well-known firms - James Walmsley & Son's "Crest Brand" Leither Beltings and Roller Skins, Leather Lices, Brown Oak-tanned Picking Bands ctc Biron & Hogarth Healds and Reeds of the best quality Hardman Ingham and Dawson Bandings and Ropes manufactured from American and Egyptian Cotton Hearl Heaton & Sons' Loom sundries, etc., Charles Cainson & Creen-Card Clothing manufacv ood William Bodden & Sons, lurers Ltd, Ring and West Spindles, Flyers, Spindles, Wheels, etc Sutcliffe, Ltd, Card Can manufacturers The Mill Supply Co, Ltd, for all of Bobbin manufactures sorts Their English Office is at 2, Marsden Street, Manchester, and their large home connection puts them in a position to execute indent orders for Mill Stores, Spinning and Weaving Machinery, etc., with the greatest promptitude and on the most favourable terms

The late Mr VURJIV MDAS MADHOWDAS, JP, Bombay The youngest of the five sons of the late Mr Madhowdas Runchor.



PORTION OF MACHINE ROOM, THACKER, SPINE & Co's Press



THE CENTRE AVENUE THACKER, SPING & CO'S REFAIL ESTABLISHMENT

the firm is in general retail drapery, dry goods, hardware, crockery, and fancy goods, stationery, etc. They are also tailors and purveyors of wearing apparel of all kinds, boots shoes etc. bes des household fur nishing requisites. The Madras firm is only one of the 22 branches of this large business and buying

based as it is entirely on cash payments, enables the firm to work at the lowest profit and thus to supply thier customers at rock bottom prices, and the rapid turnover incident on this style of business ensures that the goods they offer shall always be of the freshest and most up-to-date description



Messrs Whiteaway, Laidlaw & Co, LD, Madras

on a large scale as the firm does for the supply of these many branches, in the East and Far East, they are able to deal direct with manufacturers in Europe and thus secure the most advantageous terms this enables them to sell to the public at most reasonable rates. Their system of trading,

In many departments of the busness Messrs Whiteaway Laidlaw & Co stock specialities which are exclusively the rown. The rillustrated catalogue published monthly is a work of art and is very convenient to Mofussil residents, to whom are brought by this means information and particulars of the

latest goods in the many lines in which the firm deal Through the medium of ther catalogue their business with Mofussil residents has grown into a very large and extensive one The establ shment is managed with European supervis on at the head of each department assisted by a locally engaged staff A European Cutter is employed in the Tailoring department and a European Milliner and Dressmaker for the Ladies' department All the work is carried out on the premises In the furnishing departthey manufacture mattresses, quilts, razais, cushions, etc This is also carried out on the prem ses to ensure that clean cotton and mattresses only shall be used For the travelling public they cater largely in travelling requis tes Mr J M Forster, General Manager of Messrs White-away, I aidlaw & Co's establishment at Madras, was born in Toronto, Canada, in the year 1876, and educated in his native country He obtained his commercial training and experience with Messrs T Eaton & Co, Ltd, of Toronto, and was for a considerable time with Messrs Jordon, Marsh & Co, of Boston, Mass, U S A He came out to India to join Messrs Whiteaway, Laidlaw in 1898, and was employed at several branches of the firm at various centres, till early in 1908 he was entrusted with the charge of the Madras Branch



Born on the 28th January 1817 After elementary instruction in the Guzerati language he joined the Fort St George Regimental School, subsequently attending Mr Boswell's school His father died in 1837, and to denote the esteem in which the family was even then held, Sir Robert Grant, then Governor of Bombay, sent for Mr Vurjivandas and his brothers and presenting each with a shawl and turban as a mark of honour, expressed his deep regret and sense of the loss which they and the community at large had sustained Mr Vurjivandas with his four brothers carried on the business left by their father, in partnership, until the death of Muljibhoy, the eldest, when Mr Vurjivandas entered into partnership with his brother Narotam-In addition to this business, the firm, in conjunction with the late Mr Sorabji Shapurji Bengali, CIE, acted as guarantee brokers to Messrs W & A Graham & Co Mr Narotamdas dying in 1882 and Mr Sorabji eleven years later, Mr Donald Graham entrusted the business to Mr Vurnvandas The share mania in Bombay of 1864 had no effect on Mr Vurivandas' fortunes as he wisely abstained from speculation He took a great interest in public affairs, and in 1872 when the management of Municipal matters in Bombay was vested in a Corporation, he was elected by the ratepayers of the Fort Ward as their representative, retaining this position till 1878, when he retired, to the regret of his brother councillors and the ratepayers of Bombay In 1880 he was appointed a Director of the Bank of Bombay, holding this appointment till the time of his death in 1896 He held the position of Justice of the Peace for the Town and Island of Bombay, and was a member of the Bombay branch of the Royal Asiatic Society, a Fellow of the Bombay University, and Trustee of the Bombay Port Trust He was also a Director and Trustee of the Bombay Native Dispensary, and was connected with many charitable institutions public services were numerous and perpetuate generous То memory of his revered father he purchased in 1874 (in conjunction with his elder brother Mr Narotamo das) a large tract of land at Lal

Baug, now known as the Madhow Baug, on the Cawasji Patel Tank Road On a part of this land the brothers erected, at a cost of nearly two lakhs of rupees, several buildings for the use of Hindus on festive and other occasions In the following year the brothers built a temple at Madhow Baug and dedicated it to "Shri Luxmi Narayan" They secured the permanent maintenance of these institutions by an annual income derived from the rents of shops, leasehold properties, and the interest of securities, under a trust settlement of 1876 These institutions have become very popular with Hindus of all classes, being situated in the heart of the native town They also established a Sadavart at Madhow Baug for indigent and destitute Hindus In the year 1882 Mr Vurjivandas presented the University of Bombay with a large donation in cash, the interest of which was to be given annually to the candidate who secured the highest marks in Sanskrit in the B A Examination This is known as the "Vurjivandas Madhowdas Sanskrit Scholarship" In 1889 having had the misfortune to lose his youngest son, Mr Ranchordas, to perpetuate his memory Mr Vurnivandas erected a magnificent sanitorium on the summit of a hill situated near the railway station of Sion, about seven miles from Bom In connection with this Institution, to afford medical aid to invalid occupants of the sanitorium as also to the poor of Sion, Dharavi, Matunga and adjoining districts, Mr Vurjivandas built in 1895 a dispensary known as the "Vurjivandās Madhowdas Sion Charitable Dispensary," at the same time making ample provision for its maintenance He also administered a charitable bequest made by his elder brother, Muliibhai, in the erection of buildings in Bombay, as also in purchase of a property at Nasik to be used as Dharamsalas or rest-houses for Hindu travellers, these are known as "Muljibhai Madhowdas Dharamsalas '' Mr > Vurnvandas greatly honoured and respected by all communities On the occasion of a marriage in his family in 1888, which took place at Madhow Baug, their Royal Highnesses the Duke

and Duchess of Connaught graced the occasion by their presence He was considered in his lifetime the leader of the Hindu community in Bombay He died in 1896 leaving behind him two sons, Mr Tri bhovandas and Mr Jugmohandas

Messrs WHITEAWAY, LAIDLAW & Co, Itd, Drapers and Merchants, Mount Road, Madras This is a branch of the great firm whose head-quarters in India are established at Calcutta The Madras Branch was opened in the year At first the branch occupied small premises in Mount Road, but the business so rapidly extended that in two years' time the firm were compelled to obtain more ample accommodation The present handsome buildings which Whiteaway, Laidlaw & Co occupy, were built by the firm to meet their special requirements They were completed in the year 1903 The building has an imposing frontage and the fittings correspond to the large requirements of the increasing business The site occupied by the premises are about the best in the city of Madras, being fairly in the centre of the town and situated in the principal thoroughfare which is traversed by people coming from all parts of the city and its surroundings They are adjacent to the square, Wallajah Road, and Harris Bridge Road which leads to the Parks and near Government House The buildings are entirely furnished with electric lights, the power for which is furnished by the firm's own electric plant, which is also utilised to run fans installed throughout the Laidlaw & Co were the first firm in Madras to instal their own electric plant The premises are most commodious, containing about 15,000 feet of floor space for show-rooms They rank in point of structure and embellishment with the other fine buildings of the firm existing at Calcutta, Bombay, Rangoon and Colombo Besides the 15,000 square feet of floor space for the show-rooms on the ground floor, there are 1,500 square feet of gallery space On the second floor a large suite of rooms are provided for living quar-There are also large godowns for reserve stock The business of

THE CYCLOPEDIA OF INDIA

commercial basis. He it is who has brought the Company to its present position, and to him most of the credit of organisation is due, for he has worked very hard in the interests of the Company, and its patrons, the public All the Directors of the Com pany are Chittigong Mahommedans, who have settled at Rangoon for the purposes of trade In the initial stages of the enterprise much valuable assis tance was given by the late Munshi Ihs in Ali, one of the principal organisers He rendered substantial ud, more particularly in financial matters

The chief object of the promoters of the Company is to ficilitate trade interests, and to make due provision for the comfort of passengers who travel by their line, and at the same time to carry the merchandise entrusted to their charge with due despatch and at a minimum charge



Mr A K H A S JAMAL

Since the Company started in 1905 there has been a great saving effected by the reduction of passenger fares and freight charges, of which passen gers and merchants have reaped the benefit

Although on account of the organ isers of this purely swadeshi enter prise being Mahommedans, the present Board of Directors is composed entirely of Mahommedans, still, any Hindu, or Burman with the requisite qualifications is eligible, without prejudice, for a Directorship By the death of Munshi Ihan Ali, the Company lost its first and greatest benefactor, but the loss has to a great extent been compensated by the election of Mr Abdul Karım Haji Abdul Shakur Jamal as President, and under his direction the enterprise is making steady and satisfactory progress

GHOSE, Sir CHUNDER MADHUB, Vol II, page 162, retired from the Bench in January 1907, and on the occasion of his retirement received valedictory addresses from all the three branches of the Profession—the Barristers (headed by the Advocate General), Vakils, and the Solicitors of the High Court This was the first occasion when all the three bodies of legal practitioners joined together in presenting addresses to a retiring Judge

PAL CHOWDHURY, S. C., Vol. II, page 233, add at end, "Babu Satish Chunder Pal Chow dhury is also a Member of the Committee of Minagement of the British Indian Association and an Honorary Assistant Secretary of the Bengal Landholders' Association, besides being a prominent member of various bodies—political, literary, social or otherwise,—and takes a keen interest in all the public questions of the day"

ROY, KUMAI ROMENDRA NARAYAN, Vol III, page 316, Deceased

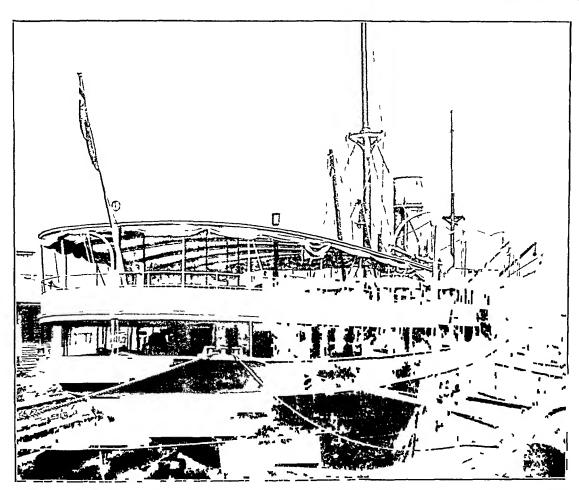
ADDENDA

The BENGAL STEAM NAVI GATION Co, Ld This Company was registered at Rangoon on the 7th July, 1905, under the Indian Companies Act of 1882, with a capital of Rs 10,00,000, divided into 1,00,000 shares of Rs 10 each, to be held by Natives of India and Burma only

Rahman, Merchant and Zemindar, Mr Munshi Abdur Rahman, Merchant and Zemindar Mr Choudhury Abdur Baii, Zemindar, Government Contractor and owner of steam launches, Mr 1 A Raman Chetty, Money lender and Merchant, and Mr K Basive Reddy, Zemindar, proprie

at present of two very fine steamers, the S S Tanglin and the S S Pal nam, with European Commanders, Officers, and Engineers These vessels ply between Calcutta, Rangoon, Chit tagong and the Northern Coromandel Coast

Among the organisers and promo-



THE BINCAL STEAM NAVICATION CO'S S S "PARNAM"

The present Directors of the Company are seven in number, as follows—Mr Abdul Karim Haji Abdul Shakur Jamel, Merchant and owner of several rice and cotton mills, proprietor of the Indo Burma Petro leum Company Mr Munshi Mahommed Kalamiah, Merchant and Zemindar, Mr Choudhary Faylur

tor of rice and cotton mills, and

Money lender

The Company have three Agencies, namely, Messas M David & Co, at Chittigong, Mr Abd \ Karim Haji Abdul Shakur at Calcutta, and Mr K Basive Reddy on the Northern Coromandel Coast

The fleet of the Company consists

ters of the Company, Munshi Mahom med Kalamiah, the present Managing Director, took a very active part, at a sacrifice of his own interests. He receives no remuneration or advantage of any kind from the Company, but is devoting the whole of his energies to promoting the interests of this rising enterprise, and placing it on a sound

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